THIRTY-SIXTH ANNUAL REPORT

OF THE

Sanitary Commissioner for the Government of Bombay,

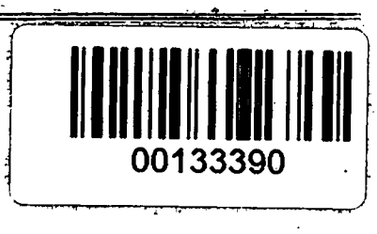
1899 to 1906

WITH

APPENDICES.

133390

II
60
1



XII
1-2

Bombay:
PRINTED AT THE GOVERNMENT CENTRAL PRESS.

1900.

Digitized with financial assistance from the
Government of Maharashtra
on 11 July, 2017

CONTENTS.

SECTION I.—METEOROLOGY—*Nil.*

SECTION II—EUROPEAN ARMY—*Nil.*

SECTION III—NATIVE ARMY—*Nil.*

SECTION IV—JAILS—*Nil.*

SECTION V.

GENERAL POPULATION AND VITAL STATISTICS.

Para.		Page.
1—2.	Effect of testing the records of vital statistics	1
3—5.	Population, number of births and deaths among Europeans and Eurasians...	1—2
6—7.	Deaths by causes among Europeans and Eurasians	2—3
8.	Statistics of sickness and mortality among the children of the Abu Lawrence Asylum, Mount Abu	3
	Births.	
9.	Number of registered births	*ib.*
10.	Births in 1899 compared with previous years from 1889 to 1898 ...	*ib.*
11.	Number of males born to every 100 females born	*ib.*
12—13.	Births by months	4
14—16.	Comparison between the number of births registered in each collectorate and district for 1899 with the number for 1898 and the mean for ten years	4—5
17—20.	Birth registration in urban and rural populations...	5—7
21—22.	Birth-rates in tálukas	7
23—26.	Birth-rate in sequence in towns	7—9
27.	Birth-rate in cantonments	9
28—29.	Still-born	9—10
	Deaths.	
30—31.	Number of deaths	10
32.	Death-rate	*ib.*
33.	Male and female death-rates	11
34—35.	Deaths by districts	*ib.*
36—39.	Deaths by collectorates	11—12
40.	Deaths by collectorates in sequence	12
41.	Deaths by sexes	12—13
42.	Birth and death-rates compared by collectorates	13
43.	Deaths by ages	13—14
44.	Deaths by caste or class...	14
45.	Deaths by causes	*ib.*
46—47.	Deaths by months	14—15
48.	Number of circles	15
49—51.	Death-rate in rural and urban populations	15—16
52—53.	Death-rate in rural circles	16
54.	Birth and death-rates in sequence in towns	16—17
55.	Death-rate in cantonments in British Territory	18
56—58.	Statistics of cantonment bazárs in quasi-foreign territory	18—19

... OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

SECTION VI.

HISTORY OF CHIEF DISEASES.

CHOLERA.

PARA.		PAGE.
59.	Total mortality from cholera	20
60.	Monthly mortality	20—21
61.	Mortality by seasons	21
62.	Mortality for 20 years from 1880 to 1899 inclusive	*ib.*
63.	Death-rates by collectorates	*ib.*
64.	Mortality in rural circles	22
65.	Mortality in towns	*ib.*
66.	Cholera in cantonments	*ib.*
67.	Mortality in villages	*ib.*
68.	Collectorates in which cholera first appeared in towns and those in which it first appeared in villages	23
69.	Attacks and deaths	*ib.*
70.	Statement appended to cholera map	23—24
71.	Cholera map	24
72.	Tabular statements showing cholera deaths and meteorological conditions ...	24

SMALL-POX.

73.	Small-pox mortality	24
74.	Small-pox deaths since 1888	24—25
75.	Deaths by districts and collectorates	25—26
76.	Deaths by ages and monthly distribution	26

FEVER.

77.	Fever mortality	26
78.	Deaths since 1888	*ib.*
79.	Deaths by districts and collectorates	26—27
80.	Deaths by months. Comparison of mortuary statistics with meteorological conditions and the prices of food	27—34
81—104c.	Deaths from plague	35—38

DYSENTERY AND DIARRHŒA.

105.	Deaths from dysentery and diarrhœa	39
106.	Deaths since 1888	39
107.	Deaths by districts and collectorates	39—40
108.	Deaths by months	40

INJURIES.

109.	Deaths from injuries	*ib.*
110.	Deaths since 1888	*ib.*
111.	Deaths from injuries in 1898 and 1899 arranged by sexes	40—41
112.	Deaths by districts and collectorates	41
113.	Snake-bites by months	42
114.	Snake-bites by districts	*ib.*
115.	Details of injuries	43—44

OTHER CAUSES.

116.	Other causes	45
117.	Deaths since 1888	45—46

SECTION VII.

General history of vaccination omitted from this report.

SECTIONS VIII AND IX.

PARA.		PAGE.
118—119.	Recommendations by Executive Engineers in charge of military works...	47
120—121.	Allotment and expenditure on sanitary works in municipal towns during 1898-99	47—48
122.	Allotment and expenditure on sanitary works by Local Boards ...	48—49
123.	Drainage and water-works	49—50
124.	Bombay Village Sanitation Act	50—52
125.	Village Sanitary Inspection Book	52—58

SECTION X.

126.	General Remarks	59
127—150.	Famine report of 1899	59—88

APPENDIX I.

1—11.	Annual Report of the Sanitary Boards	1—2

APPENDIX II.

1—62.	Annual Report of the Health Officer of the Port of Bombay ...	3—16

APPENDIX III.

	Meteorological Observations...	17—21

APPENDIX IV.

	Sanitary Works—Military	22—25

APPENDIX V.

	Sanitary Works—Civil	26—41

APPENDIX VI.

	Principal diseases causing mortality among Europeans and Eurasian Civil Population	42—43

APPENDIX VII.

	Statistics of sickness and mortality among children of the Lawrence Asylum, Mount Abu	44

APPENDIX VIII.

	Births registered in districts	45
	Deaths do. do.	46
	Deaths registered in the districts during each month of the year	47
	Deaths registered in the districts according to age.	*ib.*
	Deaths registered in the districts according to classes	48
	Deaths from different causes in the districts and towns	50—53
	Deaths from cholera in the districts during each month of the year ...	54
	Deaths from small-pox in the districts during each month of the year ...	*ib.*
	Deaths from fever in the districts during each month of the year	55
	Deaths registered from plague...	*ib.*
	Deaths from dysentery and diarrhœa in the districts during each month of the year	56
	Statement showing the chief sanitary defects in Municipalities	57—65

ANNUAL SANITARY REPORT FOR 1899.

SECTION I.—METEOROLOGY.—No remarks.

SECTION II.—EUROPEAN ARMY.—No remarks.

SECTION III.—NATIVE ARMY.—No remarks.

SECTION IV.—JAILS.—No remarks.

SECTION V.

GENERAL POPULATION AND VITAL STATISTICS.

1. The village birth and death registers were examined by the vaccination staff and reports sent to the Deputy Sanitary Commissioners of the discrepancies discovered.

The number of omissions discovered by the staff of the Sanitary Department in 1899 was—

		Births.	Deaths.
In Western Registration District	...	111	40
In Central do.	...	363	27
In Southern do.	...	478	46
In Gujarát do.	...	1,186	29
In Sind do.	...	1,246	16

These omissions were brought to the notice of the Revenue and Municipal authorities by the Deputy Sanitary Commissioners, and the defaulters were fined or warned.

2. In the City of Bombay no prosecution for failure to report the births of children were instituted.

European and Eurasian Vital Statistics.

3. The European civil census population of 1891 in the Bombay Presidency, exclusive of cantonments in quasi-foreign territory, is 18,486. During the year 1899, 221 births and 231 deaths were recorded against 246 and 243 in 1898—a birth-rate of 11·96 per mille against 13·31 in 1898 and a death-rate of 12·52 against 13·14. By sexes 116 males and 105 females were born against 141 and 105 in 1898, and, as regards deaths, 145 males and 86 females died against 145 and 98 in 1898.

4. The Eurasian census population of 1891 is 8,519. During the year 1899 the births amounted to 166 against 123 in 1898 and the deaths to 185 against 169, the rates being 19·49 per mille against 14·44 in 1898 and 21·72 against 19·84. Of those born, 82 were males and 84 females against 64 and 59 in 1898; as regards deaths, 95 males and 90 females died against 93 and 76 in 1898.

5. A table is appended showing the European and Eurasian population in each collectorate and the births and deaths for the year 1899 compared with the births and deaths in 1898, and another table following shows the deaths by causes and the ratios in 1899 compared with 1898 :—

Districts.	No.	Collectorates.	Europeans. Population according to Census of 1891.	Europeans. Number of Births. 1899.	Europeans. Number of Births. 1898.	Europeans. Number of Deaths. 1899.	Europeans. Number of Deaths. 1898.	Eurasians. Population according to Census of 1891.	Eurasians. Number of Births. 1899.	Eurasians. Number of Births. 1898.	Eurasians. Number of Deaths. 1899.	Eurasians. Number of Deaths. 1898.
Western Registration District.	1	Khándesh	239	7	6	6	5	293	8	8	6	6
	2	Násik	833	14	13	8	12	212	7	2	6	1
	3	Thána	391	2	5	4	1	274	1	3	1	3
	4	City of Bombay ...	10,251	141	165	169	185	4,330	96	69	145	118
	5	Kolába	39	...	...	...	...	2	...	...	...	...
Central Registration District.	6	Ahmednagar	332	4	...	...	1	36	2	...	1	...
	7	Poona	1,993	14	16	20	16	948	11	3	9	12
	8	Sholápur	270	8	8	2	5	164	7	8	8	1
	9	Sátára	207	5	4	4	1	60	...	...	...	...
	10	Ratnágiri	46	...	...	...	...	18	...	...	...	...
Southern Registration District.	11	Belgaum	389	...	...	...	...	354	...	1	...	
	12	Dhárwár	305	11	3	7	4	476	10	16	2	
	13	Bijápur	42	1	...	...	...	11	...	...	...	...
	14	Kánara	69	1	3	1	1	126	...	...	...	...
Gujarát Registration District.	15	Surat	90	...	...	1	...	75	...	1	1	5
	16	Broach	31	...	...	...	...	9	...	...	...	1
	17	Kaira	41	1	...	1	...	19	...	...	...	...
	18	Panch Mahális ...	19	...	1	...	...	17	...	...	...	...
	19	Ahmedabad	388	4	4	3	4	142	1	...	...	...
Sind Registration District.	20	Karáchi	2,077	6	10	2	2	685	18	5	3	5
	21	Hyderabad	129	...	...	...	...	41	...	...	...	...
	22	Thar and Parkar ...	5	...	...	...	...	9	...	...	...	..
	23	Shikárpur	231	3	8	3	6	208	9	7	3	10
	24	Upper Sind Frontier.	69	...	...	...	...	10	1	...	...	...
			18,486	221	246	231	243	8,519	166	123	185	169
Cantonments in quasi-foreign territory.	1	Aden	Not obtainable.	1	...	1	...	Not obtainable.	...	...	...	...
	2	Baroda		...	...	...	...		...	...	...	...
	3	Bhúj		...	...	...	...		...	...	...	...
	4	Deesa		1	3	...	2		...	1	...	2
	5	Mhow		3	1	1	1		...	...	...	...
	6	Nasirabad		...	...	1	...		...	...	...	...
	7	Neemuch		...	1	...	1		...	1	...	1
	8	Rájkot		...	...	...	...		1	...	...	...
			...	5	5	3	4	...	1	2	...	3

6. The causes from which deaths among Europeans and Eurasians were recorded are given in the following table :—

Deaths by causes.

Causes of deaths.		Europeans. 1899. Number of deaths.	Europeans. 1899. Ratio per 1,000 of population.	Europeans. 1898. Number of deaths.	Europeans. 1898. Ratio per 1,000 of population.	Eurasians. 1899. Number of deaths.	Eurasians. 1899. Ratio per 1,000 of population.	Eurasians. 1898. Number of deaths.	Eurasians. 1898. Ratio per 1,000 of population.
Bombay Presidency.	Cholera	2	·11	...	...	...	...	...	...
	Small-pox	...	...	...	...	1	0·12	...	...
	Plague	16	·87	14	·76	32	3·76	23	2·70
	Fevers	27	1·46	25	1·35	16	1·88	21	2·46
	Dysentery and Diarrhœa	26	1·41	26	1·41	21	2·46	13	1·53
	Injuries	8	·43	10	·54	8	·94	5	·59
	Other causes	152	8·24	168	9·08	107	12·56	107	12·53
	All causes ...	231	12·52	243	13·14	185	21·72	169	19·84
Cantonments in quasi-foreign territory.	Fevers	...	...	2	*	...	...	1	*
	Other causes	3	*	2	*	...	...	2	*
	Total ...	3	*	4	*	...	...	3	*

* As the population for the cantonments in quasi-foreign territory is not obtainable, the ratio of deaths cannot be worked out.

Two deaths from cholera among Europeans were recorded during the year 1899, of which 1 took place at Dhárwár and 1 at Ahmedabad. In 1898 no deaths from this disease were recorded among Europeans. Among Eurasians no deaths from cholera were recorded in 1899. From small-pox there was only 1 death in the City of Bombay and that occurred in an Eurasian.

In the City of Bombay during the year 1899 there were among Europeans 12 deaths recorded from plague against 13 in 1898.

In the collectorates of Poona and Dhárwár there were among Europeans 3 and 1 deaths, respectively, due to plague.

Among Eurasians there were 32 deaths recorded from plague, of which 29 took place in the City of Bombay, 1 in the collectorate of Ahmednagar and 2 in Poona. In 1898 there were 23 deaths recorded, 22 in the City of Bombay and one in the collectorate of Poona.

7. The various diseases which were the causes of deaths among the civil European and Eurasian population are given in Appendix VI.

8. The statistics of sickness and mortality among the children of the Abu Lawrence Asylum, Mount Abu, for the year 1899, are given in Appendix VII.

NATIVE POPULATION—VITAL STATISTICS.

Births

Number of registered births.

9. In the Presidency of Bombay including Sind, during the year 1899, there were 685,348 births registered against 582,371 in 1898 The recorded births for the year under report were more by 102,977 than the number registered in the previous year, and also more by 37,574 than the decennial mean ending 1898. By sexes there were 355,869 males and 329,479 females against 302,635 and 279,736 in 1898.

Births in 1899 compared with previous years 1889 to 1898.

10 The following table shows the number of births registered in each year from 1889 to 1899, their ratios per mille, and the proportion of males to females:—

Years.	Population.	Number of Births registered.			Ratio per 1,000 of Population.			In every 100 births there were		For every 100 Male births the females were
		Male.	Female.	Children.	Male.	Female.	Children.	Male.	Female.	
1889	16,454,414	312,974	287,515	600,489	19·02	17·47	36·49	52·12	47·88	91·87
1890	16,454,414	333,698	307,417	641,115	20·28	18·68	38·97	52·05	47·95	92·14
1891	18,820,346	354,630	328,047	682,677	18·84	17·43	36·27	51·95	48·05	92·50
1892	18,820,346	337,150	313,517	650,667	17·91	16·66	34·57	51·82	48·18	92·99
1893	18,820,346	345,424	318,881	664,305	18·35	16·94	35·30	52·00	48·00	92·32
1894	18,820,346	342,911	317,357	660,268	18·22	16·86	35·08	51·94	48·06	92·55
1895	18,820,346	350,115	324,189	674,304	18·60	17·23	35·83	51·92	48·08	92·59
1896	18 820,346	359,097	332,750	691,847	19·08	17·68	36·76	51·90	48·10	92·66
1897	18,820,346	327,573	302,120	629,693	17·41	16·05	33·46	52·02	47·98	92·23
1898	18,820,346	302,635	279,736	582,371	16·08	14·86	30·94	51·97	48·03	92·43
Mean for 10 years ...	18,347,160	336,621	311,153	647,774	18·35	16·96	35·31	51·97	48·03	92·43
1899	18,820,346	355,869	329,479	685,348	18·91	17·51	36·42	51·93	48·07	92·58

The recorded birth-rate for the year was 36·42 per mille against 30·94 in 1898 and a decennial mean of 35·31.

11. From the annual Form No. 1 in Appendix VIII, it will be seen that for every 100 female births 108·01 male births were recorded, but this proportion is greater in the undermentioned collectorates and districts :—

In the City of Bombay	the ratio of male to female births was	...	114·03
„ Kaira	do.	do.	... 112·09
„ Karáchi	do.	do.	... 119·52
„ Hyderabad	do.	do.	... 133·25
„ Thar and Párkar	do.	do.	... 132·75
„ Shikárpur	do.	do.	... 119·83
„ Upper Sind Frontier	do.	do.	... 127·01

All parts of Sind show an excess of male births.

Births by months.

12. The monthly distribution of births in 1899, as compared with 1898 and with the monthly mean of the previous ten years, is given in the following table :—

	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
Mean for 10 years 1889 to 1898	46,728	40,569	45,097	45,863	45,193	41,851	50,225	54,381	48,71[illegible]	48,985	40,801	48,577	565,963
1898...	40,357	31,651	24,057	35,478	38,814	42,338	49,508	57,097	61,859	67,902	62,915	59,735	582,371
1899...	58,043	52,652	57,257	55,801	58,774	58,849	61,088	60,202	58,642	57,250	53,504	53,286	685,348

The greatest number (61,088) was registered in the month of July and the least (52,652) in February. The highest and lowest registrations in 1898 occurred in the months of October and February.

13. In January the births were above the average, but in February there was a fall, and it was in this month that they reached the lowest figure during the year. February usually records the smallest number of births. During March the births registered were nearly the same as the normal, but in April they were very much below it. During May, June, July, August and September, they much exceeded it, but in October they again came down nearly to the average. For the rest of the year (November and December) they were very much below the average, but the total for the year was the highest as compared with the total for the year 1898 and the decennial mean.

Comparison between the number of births registered in each collectorate and district for 1899 with the number for 1898 and the mean for ten years.

14. The next table shows the number of births registered in 1899 in each collectorate and district of the Presidency contrasted with those for 1898 and the mean for ten years :—

Districts.	No.	Collectorates.	Population according to Census of 1891.	Mean for 10 years 1889-1898.		1898.		1899.	
				Number of Births.	Ratio per 1,000 of Population.	Number of Births.	Ratio per 1,000 of Population.	Number of Births.	Ratio per 1,000 of Population.
Western Registration District.	1	Khándesh	1,460,319	62,602	44·22	59,497	40·74	77,190	52·85
	2	Násik	841,087	35,598	42·93	31,476	37·42	41,584	49·44
	3	Thána	818,967	26,166	32·04	24,708	30·17	25,912	31·64
	4	City of Bombay ...	806,144	14,129	17·67	10,544	13·10	10,387	12·88
	5	Kolába	594,779	18,406	32·16	19,665	33·06	21,436	36·04
Central Registration District.	6	Ahmednagar ...	887,656	37,996	44·16	31,823	35·85	40,691	45·76
	7	Poona	1,061,449	37,025	35·97	31,535	29·70	35,458	33·41
	8	Sholápur	750,255	28,936	40·37	21,575	28·75	29,662	39·54
	9	Sátára	1,225,511	46,053	38·61	36,358	29·67	41,[illegible]35	33·56
	10	Ratnágiri	1,105,862	32,895	30·34	27,1[illegible]8	24·52	38,822	35·11
Southern Registration District.	11	Belgaum	1,011,453	38,929	39·64	33,780	33·40	38,979	38·54
	12	Dhárwár	1,050,533	43,135	4[illegible]·41	36,009	34·85	38,503	36·73
	13	Bijápur	796,286	30,705	4[illegible]·15	22,138	27·80	33,007	41·45
	14	Kánara	446,166	13,527	30·6[illegible]	10,601	23·76	13,979	31·33
Gujarát Registration District.	15	Surat	619,824	24,908	38·75	24,293	37·38	25,333	38·93
	16	Broach	341,450	13,372	39·50	13,8[illegible]6	40·49	12,4[illegible]6	30·34
	17	Kaira	87[illegible],529	30,493	35·53	34,[illegible]90	39·11	36,553	41·94
	18	Panch Maháls ...	313,381	11,661	38·64	13,266	4[illegible]·33	12,420	39·63
	19	Ahmedabad ...	920,928	29,687	32·69	30,315	32·92	33,547	36·43
Sind Registration District.	20	Karáchi	561,013	15,244	27·99	15,5[illegible]0	27·65	16,635	29·65
	21	Hyderabad ...	883,836	17,867	20·[illegible]2	14,991	16·96	19,010	21·51
	22	Thar and Párkar ...	332,401	7,109	24·17	9,4[illegible]2	28·32	7,150	21·51
	23	Shikárpur	915,058	26,650	29·52	24,469	26·74	30[illegible]121	3[illegible]·91
	24	Upper Sind Frontier.	174,469	4,381	26·[illegible]5	4,572	26·[illegible]0	[illegible],748	32·94

Abstract.

Western Registration District	...	...	4,521,296	156,901	35·39	145,890	32·27	176,509	39·04
Central do.	...	...	5,030,733	182,905	37·45	148,409	29·50	185,698	36·91
Southern do.	...	...	3,304,428	126,296	39·41	103,128	31·21	124,558	37·69
Gujarát do.	...	..	3,097,112	110,121	36·11	115,990	37·45	119,919	38·72
Sind do.	...	...	2,866,777	71,551	25·77	68,954	24·05	78,664	27·44
	Presidency	...	18,820,346	647,774	35·31	582,371	30·94	685,348	36·42

It will be seen from the abstract of the above table that the number of births recorded was higher than in the previous year in all the registration districts.

15. Of the 24 collectorates and districts the number of recorded births in 1899 was higher than in 1898 in all the collectorates except the City of Bombay, Broach, Panch Maháls and the district of Thar and Párkar. The City of Bombay, as usual, recorded a low birth-rate 12·88 per mille against 13·08 and a decennial mean of 17·67 and it was owing to plague.

16. As regards the low birth-rate in the district of Thar and Párkar the Deputy Sanitary Commissioner, Sind Registration District, remarks that owing to famine in this district and consequent emigration of the people into other parts of Sind, the birth-rate for the year for the district of Thar and Párkar was lower in 1899 than in 1898 and the decennial mean.

Birth registration in urban and rural populations.

17. The birth-rate per 1,000 of population among the urban and rural population in each collectorate of the Presidency during 1899, as compared with 1898, is given in the following table :—

Collectorates.	Urban and Rural.	Population according to Census of 1891.	1898.	1899.
Kháندesh	Urban	56,658	44·21	52·68
	Rural	1,403,661	40·60	52·86
Násik	Urban	49,319	27·82	33·15
	Rural	791,768	38·02	50·46
Thána	Urban	30,063	21·69	21·72
	Rural	788,904	30·49	32·02
City of Bombay	Urban	803,144	13·08	12·88
	Rural	.....	...	...
Kolába...	Urban	23,172	18·82	22·35
	Rural	571,607	33·65	36·59
Ahmednagar	Urban	50,494	19·05	27·07
	Rural	837,162	36·86	46·89
Poona	Urban	171,445	13·85	12·18
	Rural	890,004	32·76	37·49
Sholápur	Urban	102,069	18·84	33·01
	Rural	648,186	30·32	40·56
Sátára	Urban	50,269	24·93	33·50
	Rural	1,175,242	29·87	33·57
Ratnágiri	Urban	24,394	32·30	46·94
	Rural	1,081,468	24·35	34·84
Belgaum	Urban	61,597	22·18	25·62
	Rural	949,856	34·12	39·38
Dhárwár	Urban	122,354	26·52	28·38
	Rural	928,179	35·94	37·84
Bijápur	Urban	21,371	35·37	39·12
	Rural	774,915	27·59	41·52
Kánara	Urban	25,228	25·88	33·77
	Rural	420,928	23·63	31·19
Surat	Urban	123,345	32·74	35·44
	Rural	526,479	38·47	39·82
Broach...	Urban	52,207	40·55	31·13
	Rural	289,243	40·48	36·10

Collectorates.	Urban and Rural.	Population according to Census of 1891.	1898.	1899.
Kaira	Urban	66,109	51·41	54·30
	Rural	805,420	38·35	40·93
Panch Mahals...	Urban	27,626	46·30	38·62
	Rural	285,755	41·95	39·73
Ahmedabad	Urban	194,096	33·07	36·45
	Rural	726,832	32·88	36·42
Karáchi	Urban	97,009	38·40	44·11
	Rural	464,004	25·40	26·63
Hyderabad	Urban	54,512	39·62	37·90
	Rural	829,324	15·47	20·43
Thar and Párkar	Urban	3,698	43·00	40·29
	Rural	328,703	28·15	21·20
Shikárpur	Urban	82,936	37·17	48·01
	Rural	832,122	25·70	31·41
Upper Sind Frontier	Urban	8,258	26·27	29·67
	Rural	166,211	26·20	33·11
Presidency ...	Urban	2,304,373	24·05	26·48
	Rural	16,515,973	31·90	37·80

18. The recorded birth-rates among the urban and rural populations of the Presidency were 26·48 and 37·80 against 24·05 and 31·91 in 1898. Except in the collectorates of Rátnagiri, Kánara, Kaira and throughout Sind, with the exception of Upper Sind Frontier, the birth-rates were higher among the rural than in the urban population. The urban rates were in many places greatly affected by the exodus caused by plague.

19. In the collectorates of Khándesh, Sátára and Ahmedabad the birth-rates among the rural and urban populations were nearly the same, 52·86 and 52·68, respectively, in Khándesh, 33·57 and 33·50 in Sátára, and 36·42 and 36·45 in Ahmedabad.

20. The difference is most marked in the following collectorates:—

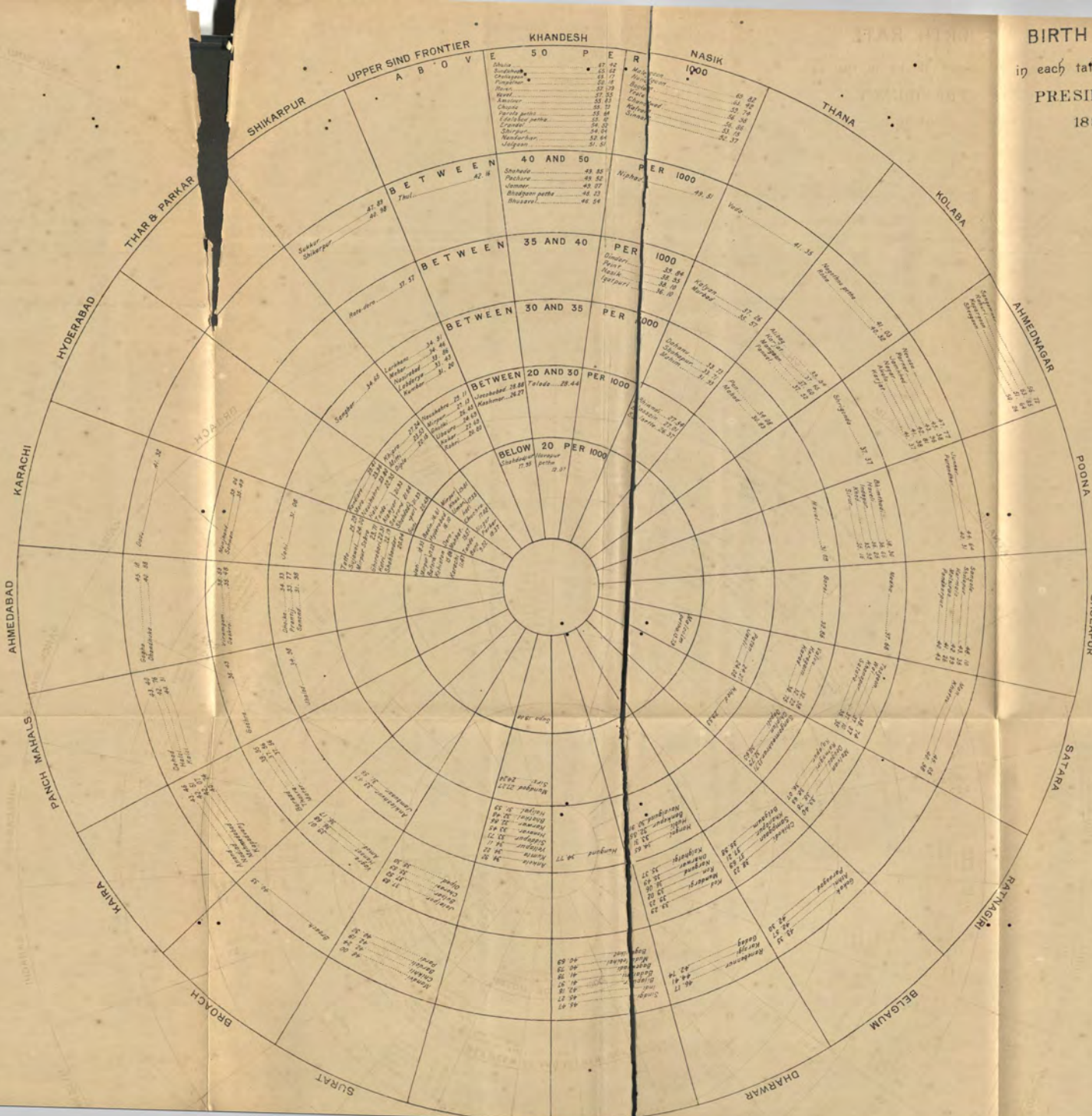
	Ratio per 1,000.	
	Rural.	Urban.
Poona	37·49	12·18
Ahmednagar ...	46·89	27·07
Násik	50·46	33·15
Kolába	36·59	22·35
Belgaum	39·38	25·62
Thána	32·02	21·72

BIRTH RATE

in each taluka in the

PRESIDENCY

1899.



whilst in the undermentioned 7 collectorates and districts the birth-rates in the rural population were lower than in the urban, 4 out of the 7 being in Sind :—

	Urban.	Rural.
Thar and Párkar ...	40·29	21·20
Karáchi	44·11	26·63
Hyderabad ...	37·90	20·43
Shikárpur ...	48·01	31·41
Kaira	54·30	40·93
Ratnágiri... ...	46·94	34·84
Kánara	33·77	31·19

Birth-rate in tálukas.

21. The birth-rate for each rural registration circle is shown in a diagram on the opposite page, which has been drawn so as to show at a glance the rate in each collectorate.

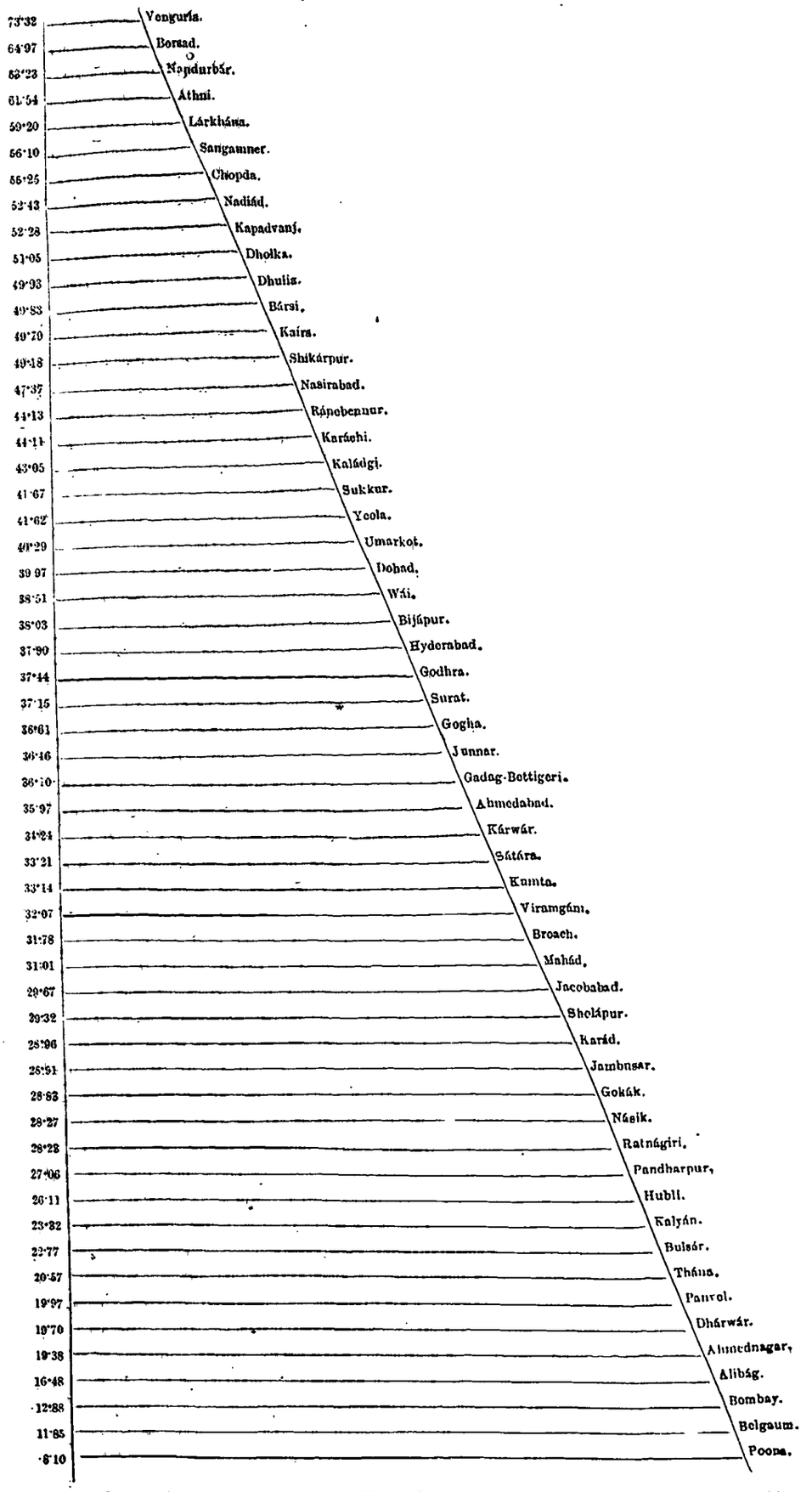
22. In 25 tálukas the birth-rate was above 50 per mille. In 55 rural registration circles it was between 40 and 50 per mille; in 51 it was between 35 and 40; in 39 it ranged from 30 to 35; in 34 it was between 20 and 30 and in 16 it was below 20 per mille. Of these last 16 rural registration circles, 13 are in Sind, and of the remaining 3, one is situated in the collectorate of Khándesh, one in Sátára, and one in Kánara.

Birth-rate in sequence in towns.

23. The following diagram shows the recorded birth-rate in 56 towns in the Presidency arranged in sequence of high birth-rate per mille :—

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

Recorded Birth-rate per 1,000 of Population in Towns.



24. Out of 56 towns in the Presidency, 21 had a birth-rate exceeding 40 per mille. Poona, Belgaum, Bombay, Alibag, Ahmednagar, Dhárwár and Panvel have very low birth rates.

25. This in the case of Poona, Belgaum and Bombay is chiefly due to the decrease in population owing to the exodus caused by plague.

26. The following Municipalities deserve credit for the attention they have paid to the registration of births, and show that a high birth-rate is not confined to any particular part of the Presidency :—

Collectorates.	Municipalities.	Birth-rate.
Ratnágiri ...	Vengurla ...	73·32
Kaira	Borsad	64·97
Khándesh ...	Nandurbár ...	63·23
Belgaum	Athni	61·54
Shikárpur ...	Larkhána ...	59·20
Ahmednagar ...	Sangamner ...	56·10
Khándesh ...	Chopda	55·25
Kaira	Nadiád	52·43
	Kapadvanj ...	52·28
Ahmedabad ...	Dholka	51·05
Khándesh ...	Dhulia	49·93
Sholápur ...	Bársi	49·83
Kaira	Kaira	49·79
Shikárpur ...	Shikárpur ...	49·18
Khándesh ...	Nasirabad ...	47·37
Dhárwár	Ranebennur ...	44·13
Karáchi	Karáchi	44·11
Bijápur	Kaládgi	43·05
Shikárpur ...	Sukkur	41·67
Násik	Yeola	41·62
Thar and Párkar ...	Umarkot ...	40·29

Birth-rate in cantonments.

27. The following table contrasts the recorded birth-rate in each cantonment in British territory in 1899 with the result of the previous year :—

Cantonments.	Birth-rate in 1898.	Birth-rate in 1899.
Devláli	12·21	19·19
Málegaon	28·27	30·86
Ahmednagar	14·58	26·00
Poona	15·63	14·33
Kirkee	17·53	25·34
Belgaum	10·71	23·49
Ahmedabad	17·62	16·22

The birth registration in the cantonment of Malegaon, as in 1898, shows a good result among cantonments. There appears to be an improvement in the registration of births in 1899 over 1898 in the cantonments of Ahmednagar, Kirkee and Belgaum. In the cantonments of Poona and Ahmedabad there is a falling off during the present year. This is, in the case of Poona, due to plague. The cantonment of Devláli shows an improvement during the present year over that for the year 1898.

Still-born.

28. During the year 1899, 9,653 children were registered as still-born against 7,859 in 1898. Of these 5,397 were males and 4,256 females against 4,507 and 3,352, respectively, in 1898. These births occurred in the following collectorates :—

Collectorates.	Recorded Births.	Still-Born.			Percentage of still-born to born alive.
		Urban.	Rural.	Total.	
Khándesh	77,190	18	551	569	·74
Násik	41,584	7	222	229	·55
Thána	25,912	2	76	78	·30
City of Bombay	10,387	1,942	...	1,942	18·70
Kolába	21,436	7	353	360	1·68
Ahmednagar	40,621	48	40	88	·22
Poona	35,458	264	166	430	1·21
Sholápur	29,662	3	6	9	·03
Sátára	41,135	38	234	272	·66
Ratnágiri	38,822	...	144	144	·37
Belgaum	38,979	54	366	420	1·08
Dhárwár	38,593	155	1,042	1,197	3·10
Bijápur	33,007	14	320	334	1·01
Kánara	13,979	13	729	742	5·31
Surat	25,333	198	274	472	1·86
Broach	12,066	86	105	191	1·58
Kaira	36,553	114	264	378	1·03
Panch Maháls	12,420	7	45	52	·42
Ahmedabad	33,547	522	32	554	1·65
Karáchi	16,635	295	142	437	2·63
Hyderabad	19,010	121	47	168	·88
Thar and Párkar	7,150	15	27	42	·59
Shikárpur	30,121	232	283	515	1·71
Upper Sind Frontier ...	5,748	13	17	30	·52
Presidency ...	685,348	4,168	5,485	9,653	1·41

29. The total number of still-born in 1899 is higher than in the previous year, 9,653 against 7,859 in 1898, the percentage being 1·41 against 1·35 in 1898. The City of Bombay shows high percentage of still-born to born alive, and the Health Officer for the City of Bombay states that it is due to the prevalence of plague.

The collectorate of Kánara shows the next high percentage of still-births, the number being 742 in 1899 against 482 in 1898, and the percentage to born alive is 5·31 against 4·55 in 1898.

There is a marked increase in the number of "still-born" in the City of Bombay and in the collectorates of Kolába, Poona, Dhárwár, Kánara, Kaira, Karáchi and Shikárpur.

Deaths.

Number of deaths.

30. Among the civil population in the rural, town and cantonment circles in the Presidency, 672,269 deaths were registered during the year 1899. In 1898, 548,825 deaths, or 123,444 less than in 1899, were recorded.

The following statement shows the number of deaths recorded in each year since 1889 :—

1889	518,562	1895	538,540
1890	463,616	1896	596,472
1891	513,132	1897	749,916
1892	611,742	1898	548,825
1893	511,831	1899	672,269
1894	607,179		

31. Of the total deaths registered, 355,241 occurred among males and 317,019 among females (the sexes of 9 deaths in Sind could not be ascertained) against 288,796 and 260,029, respectively, in 1898.

Death-rate.

32. The death-rate per mille in 1899 was 35·72 against 29·16 in 1898 and a decennial mean of 30·85.

Male and female death-rates.

33. The millesimal rate of males dying to males living was 36·48 and of females dying to females living was 34·90. In 1898 these ratios were, respectively, 29·66 and 28·63. For every 100 females who died, 112·06 deaths among males were recorded, but these proportions vary considerably in the following collectorates and districts :—

In Khándesh	the ratio of male to	female deaths	was 113·15	per cent.
In Thána	do.	do.	114·81	„
In the City of Bombay	do.	do.	144·18	„
In Kaira	do.	do.	114·48	„
In Karáchi	do.	do.	125·11	„
In Hyderabad	do.	do.	125·27	„
In Thar and Párkar	do.	do.	129·24	„
In Upper Sind Frontier	do.	do.	121·02	„

Deaths by districts.

34. The following table shows, for each registration district, the population enumerated at the census of 1891, the number of deaths recorded in 1899 by sexes, and their ratios per mille :—

Registration Districts.	Population according to Census of 1891.			Number of Deaths.			Ratio per 1,000 of Population.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Western Registration District	2,409,930	2,111,366	4,521,296	112,153	93,894	206,047	46·53	44·47	45·57
Central do.	2,500,086	2,530,647	5,030,733	88,774	83,746	172,520	35·51	33·09	34·29
Southern do.	1,670,334	1,634,094	3,304,428	64,586	60,507	125,093	38·67	37·03	37·86
Gujarát do.	1,592,090	1,505,022	3,097,112	58,975	53,461	112,436	37·04	35 52	36·30
Sind do.	1,564,946	1,301,831	2,866,777	*30,753	*25,411	56,173	19·65	19·52	19·59
Presidency ...	9,737,386	9,082,960	18,820,346	355,241	317,019	672,269	36·48	34·90	35·72

* *N.B.*—Sexes of 9 deaths in Sind cannot be ascertained.

35. The highest death-rate occurred in the Western Registration District, which had suffered to a considerable extent from plague; the lowest death-rate was in Sind.

Deaths by collectorates.

36. The following table shows the recorded deaths in each collectorate in 1899 as compared with 1898 and the mean of the previous ten years :—

Districts.	No.	Collectorates.	Population according to Census of 1891.	Mean for 10 years, 1889-1898.		1898.		1899.	
				Number	Ration per 1,000 of population.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.
Western Registration District.	1	Khándesh	1,460,319	49,237	34·78	41,491	28·41	58,208	39·86
	2	Násik	841,087	31,902	38·48	26,851	31·92	41,732	49·62
	3	Thána	818,967	22,186	27·17	23,213	28·34	30,456	37·19
	4	City of Bombay ...	806,144	29,946	37·45	51,617	64·03	56,062	69·54
	5	Kolába	594,779	15,169	26·50	14,065	23·65	19,589	32·93
Central Registration District.	6	Ahmednagar ...	887,656	30,293	35·20	19,301	21·74	29,348	33·06
	7	Poona	1,061,449	33,678	32·72	24,228	22·82	52,717	49·67
	8	Sholápur	750,255	24,123	33·66	15,864	21·14	24,077	32·09
	9	Sátára	1,225,511	39,949	33·49	32,880	26·83	42,236	34·46
	10	Ratnágiri	1,105,862	24,024	22·16	21,921	19·82	24,142	21·83
Southern Registration District.	11	Belgaum	1,011,453	31,295	31·87	42,255	41·77	45,512	44·99
	12	Dhárwár	1,050,533	35,882	35·28	67,035	63·81	42,649	40·59
	13	Bijápur	796,286	22,690	29·67	15,390	19·33	23,141	29·06
	14	Kánara	446,156	12,611	28·58	11,985	26·86	13,791	30·91
Gujarát Registration District.	15	Surat	649,824	21,334	33·19	20,420	31·42	25,269	38·38
	16	Broach	341,450	13,317	39·34	13,016	38·12	15,706	46·00
	17	Kaira	871,529	29,528	34·41	24,439	28·04	32,524	37·32
	18	Panch Mahals ...	313,381	7,631	25·28	8,670	27·66	8,991	28·69
	19	Ahmedabad... ...	920,923	32,207	35·47	25,332	27·51	29,946	32·52
Sind Registration District.	20	Karáchi	561,013	13,566	24·91	12,951	23·09	17,205	30·67
	21	Hyderabad	883,836	14,872	17·33	9,758	11·04	12,257	13·37
	22	Thar and Párkar ...	332,401	5,511	17·97	4,847	14·53	7,753	23·32
	23	Shikárpur	915,058	21,738	24·08	18,279	19·98	15,998	17·48
	24	Upper Sind Frontier.	174,469	3,293	20·03	3,017	17·29	2,960	16·37

Abstract.

Western Registration District	4,521,296	148,440	33·48	157,237	34·78	206,047	45·57
Central do.	5,030,733	152,067	31·14	114,194	22·69	172,520	34·29
Southern do.	3,304,428	102,478	31·97	136,665	41·36	125,093	37·86
Gujarát do.	3,097,112	104,017	34·11	91,877	29·66	112,436	36·30
Sind do.	2,866,777	58,980	21·24	48,852	17·04	56,173	19·59
Presidency ...	18,820,346	565,982	30·85	548,825	29·16	672,269	35·72

37. The death-rates in 1899 were higher than the decennial mean in all the registration districts except Sind.

38. The Deputy Sanitary Commissioner, Gujarát Registration District, remarks that "notwithstanding the ravages of plague, more or less severe throughout Gujarát during the past three years, and the effects of famine, which began to be appreciable during the last three months of the year, the general survey of births and deaths presents a satisfactory record." He further adds that "there is an almost complete absence of the usual scourges, small-pox and cholera, while the death-rate, in spite of plague and famine, is only slightly above the average of the past ten years.

39. It will further be seen from the above table that the recorded death-rate per mille in 1899 was higher than in 1898 in all the collectorates and districts except the collectorates of Dhárwár, Shikárpur and the district of Upper Sind Frontier. The Upper Sind Frontier was free from plague and scarcity. The high mortality in the City of Bombay and in the collectorates of Ahmednagar, Poona, Sholápur, Sátára, Belgaum andDhárwár was due to plague.

The Deputy Sanitary Commissioner, Central Registration District, states that "there was practically no cholera and the deaths from small-pox were low, but there was a very heavy mortality from plague, and this accounts for the high death-rate during the year."

The Deputy Sanitary Commissioner, Southern Registration District, remarks that amongst the cause of deaths, fever and plague form the largest items in the Belgaum and Dhárwár Collectorates.

Deaths by collectorates in sequence.

40. The next statement shows the death-rate in 1899 by collectorates in sequence of the highest rates, which ranged from 69·54 per mille in the City of Bombay to 13·87 in the collectorate of Hyderabad. In 1898 the maximum and minimum ratios (64·03 and 11·03) occurred in the same collectorates :—

Collectorates.	Number of deaths.			Ratio per 1,000 of population.		
	Male.	Female.	Total.	Male.	Female.	Total.
City of Bombay	33,103	22,959	56,062	65·20	76·93	69·54
Poona	27,567	25,150	52,717	50·96	48·32	49·67
Násik	21,753	19,979	41,732	50·55	48·64	49·62
Broach	8,127	7,579	15,706	46·46	45·58	46·00
Belgaum	23,584	21,928	45,512	46·21	43·76	44·99
Dhárwár	21,800	20,849	42,649	41·32	39·87	40·59
Khándesh	30,900	27,308	58,208	41·45	38·21	39·86
Surat	12,772	12,497	25,269	39·72	38·07	38·88
Kaira	17,360	15,164	32,524	37·61	36·90	37·32
Thána	16,278	14,178	30,456	38·08	36·22	37·19
Sátára	21,385	20,851	42,236	34·86	34·07	34·46
Ahmednagar	15,148	14,200	29,348	33·60	32·51	33·06
Kolába	10,119	9,470	19,589	33·86	32·01	32·93
Ahmedabad	15,846	14,100	29,946	33·50	31·48	32·52
Sholápur	12,663	11,414	24,077	33·22	30·92	32·09
Kánara	7,291	6,500	13,791	31·13	30·67	30·91
Karáchi	9,557	7,639	17,205	30·80	30·47	30·67
Bijápur	11,911	11,230	23,141	29·92	28·28	29·06
Panch Maháls	4,870	4,121	8,991	30·05	27·30	28·69
Thar and Párkar	4,371	3,382	7,753	23·70	22·86	23·32
Ratnágiri	12,011	12,131	24,142	23·39	20·48	21·83
Shikárpur	8,443	7,555	15,998	17·10	17·93	17·48
Upper Sind Frontier ...	1,566	1,394	2,960	16·27	17·82	16·97
Hyderabad...	6,816	5,441	12,257	14·19	13·48	13·87
Total ...	355,241	317,019	672,269	36·48	34·90	35·72

Deaths by sexes.

41. The above statement shows that in the City of Bombay and the Upper Sind Frontier, the recorded death-rates of females were higher than those among males. In Sátára, Karáchi and Shikárpur, the death-rates of males and females were about equal.

In the remaining collectorates the death-rates of males exceeded those of females. In 1898, the female death-rates exceeded those among males in the City of Bombay, Broach, Kaira, Panch Mahâls, Thar and Párkar and Shikárpur.

Birth and death-rates compared by collectorates.

42. Comparing the birth and death-rate in each collectorate for 1899, the birth-rate in the City of Bombay was much below the registered death-rate 12·88 and 69·54, respectively; as stated in last two years this may be ascribed to the plague and to the exodus of families which took place on account of plague. In the following collectorates, the recorded birth-rates are lower than the registered death-rates :—

Collectorates.	Birth-rate.	Death-rate.
Thána	31·64	37·19
Poona	33·41	49·67
Sátára	33·56	34·46
Belgaum	38·54	44·99
Dhárwár	36·73	40·59
Broach	35·34	46·00
Karáchi	29·65	30·67
Thar and Párkar ...	21·51	23·32

These results may be ascribed to plague, and in Belgaum, Dhárwár and Karáchi to cholera also.

In the collectorates of Násik and Surat, the birth and death-rates were about equal—49·44 and 49·62, respectively, for the collectorate of Násik and 38·98 and 38·88 for Surat.

In the other collectorates and districts, the birth-rates were higher than the registered death-rates.

The difference is noticeable in the following collectorates :—

Collectorates.	Birth-rate.	Death-rate.
Upper Sind Frontier ...	32·94	16·97
Shikárpur	32·91	17·48
Ratnágiri	35·11	21·83
Kháudesh	52·85	39·86
Ahmednagar	45·76	33·06
Bijápur	41·45	29·06
Panch Mahâls... ...	39·63	28·69

Deaths by ages.

43. The figures given below show the total deaths in 1899 under different ages, as also the ratios per 1,000 living calculated on the population of each age period enumerated at the census of 1891 and the percentage on total deaths :—

Age period.	Population according to Census of 1891.	Number of deaths.	Ratio per 1,000 of population.	Percentage on total deaths.
Under 1 year	680,472	134,036	196·97	19·94
1 and under 5	2,178,646	104,459	47·95	15·54
5 do. 10	2,615,588	38,030	14·54	5·66
10 do. 15	1,820,754	28,373	15·58	4·22
15 do. 20	1,470,976	23,697	16·11	3·52
20 do. 30	3,410,817	66,488	19·49	9·89
30 do. 40	2,765,949	67,400	24·38	10·03
40 do. 50	1,841,976	56,032	30·42	8·33
50 do. 60	1,117,120	52,013	46·56	7·74
60 and upwards	918,048	101,741	110·82	15·13
Total ...	18,820,346	672,269	35·72	100·

As compared with last year, the table shows that there has, in the present year, been an increase in the percentage of deaths under 5 years, and a decrease between 20 and 60. The Deputy Sanitary Commissioner, Sind Registration District, remarks that "owing to the famine people have been selling their cows during the last 2 months of the year, lots of deaths have taken place from convulsions on account of bad feeding."

The total deaths by sexes under the different ages in 1899 in each collectorate is given in Annual Form IV in the Appendix.

Deaths by caste or class.

44. The deaths by caste in each collectorate are given in Annual Form V in the Appendix.

Deaths by causes.

45. The subjoined table shows the deaths in 1899 arranged according to the specified causes laid down by the Government of India, and contrasted with the results for 1898 and with the decennial mean. The "causes of deaths" will be briefly noticed in the next section.

Causes of deaths.	Mean for 10 years 1889-1898.		1898.		1899.	
	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.
Cholera	25,459	1·39	4,368	·28	8,579	·46
Small-pox	3,540	·19	1,834	·10	1,946	·10
Plague	Not available		86,191	4·58	96,596	5·13
Fevers	384,517	20·96	216,324	11·49	228,438	12·14
Dysentery and Diarrhœa	43,918	2·39	56,789	3·02	74,736	3·97
Injuries	6,155	·34	6,984	·37	7,102	·38
Other causes ...	102,393	5·58	176,335	9·37	254,872	13·54
All causes ...	565,982	30·85	548,825	29·16	672,269	35·72

Deaths by months.

46. The monthly distribution of deaths in 1899 is shown in the following table contrasted with deaths in 1898 and with the decennial mean. As compared with the decennial mean the death-rate in January rose and fell in February to a normal, but it again rose in March; during April and up to the end of July it was again normal, but after that month till the end of October it rose above the mean. It fell in November and again rose in December.

Months.	Deaths from all causes.					
	Mean for 10 years 1889-1898.	Ratio per 1,000 of population.	1898.	Ratio per 1,000 of population.	1899.	Ratio per 1,000 of population.
January	46,728	2·55	49,876	2·65	58,587	3·11
February	40,569	2·21	43,218	2·30	53,475	2·84
March	45,097	2·46	45,747	2·43	65,190	3·46
April	45,863	2·50	39,181	2·08	55,970	2·97
May	45,193	2·46	34,816	1·85	49,878	2·65
June	41,851	2·28	30,373	1·61	42,282	2·25
July	50,225	2·74	35,693	1·89	50,585	2·69
August	54,381	2·96	46,038	2·45	59,631	3·17
September	48,712	2·66	50,082	2·66	59,460	3·16
October	48,985	2·67	60,336	3·21	60,374	3·21
November	49,801	2·71	59,707	3·17	54,436	2·90
December	48,577	2·65	53,763	2·86	62,401	3·31
Year ...	565,982	30·85	548,825	29·16	672,269	35·72

47. The year 1899 was very unhealthy as compared with the previous year. The death-rate in the latter part of the year commencing from August to the end of the year was increased by the effects of plague and scarcity.

Number of circles.

48. Statistical returns are received from 220 rural and 56 town circles, from 7 cantonments in British and 8 in Foreign territory. The population, according to the census of 1891, of the rural circles was 16,515,973, of the town circles 2,238,399, and of the cantonments in British territory 65,974, exclusive of Europeans and Eurasians, or a total of 18,820,346.

Death-rate in rural and urban populations.

49. The death-rate per mille among the urban and rural populations in each collectorate of the Presidency during the year 1899 as compared with 1898 is given in the following table:—

Collectorate.	Urban and Rural.	Population according to Census of 1891.	1898.	1899.
Khándesh	Urban ...	56,658	33·91	42·59
	Rural ...	1,403,661	28·19	39·75
Násik	Urban ...	49,319	33·24	96·82
	Rural ...	791,768	31·84	46·67
Thána	Urban ...	30,063	42·97	53·45
	Rural ...	783,904	27·78	36·56
City of Bombay	Urban ...	806,144	64·03	69·54
	Rural ...	.....	...	...
Kolába	Urban ...	23,172	31·68	33·92
	Rural ...	571,607	23·32	32·89
Ahmednagar	Urban ...	50,494	26·68	79·75
	Rural ...	837,162	21·44	30·25
Poona	Urban ...	171,445	5·66	104·06
	Rural ...	890,004	22·39	39·19
Sholápur	Urban ...	102,069	24·78	51·10
	Rural ...	648,186	20·58	29·09
Sátára	Urban ...	50,269	27·04	51·01
	Rural ...	1,175,242	326·39	33·74
Ratnágiri	Urban ...	24,394	25·94	40·50
	Rural ...	1,081,468	19·68	21·41
Belgaum	Urban ...	61,597	87·60	65·21
	Rural ...	949,856	38·80	43·68
Dhárwár	Urban ...	122,354	56·63	51·04
	Rural ...	928,179	64·76	39·22
Bijápur	Urban ...	21,371	28·96	32·66
	Rural ...	774,915	19·07	28·96
Kánara	Urban ...	25,228	18·91	21·29
	Rural ...	420,928	27·34	31·49
Surat	Urban ...	123,345	39·21	49·24
	Rural ...	526,479	29·60	36·46
Broach	Urban ...	52,207	40·53	57·92
	Rural ...	289,243	37·65	43·85
Kaira	Urban ...	66,109	38·78	49·52
	Rural ...	805,420	27·15	36·32
Panch Mahás	Urban ...	27,626	41·55	68·20
	Rural ...	285,755	26·32	24·88
Ahmedabad	Urban ...	194,096	39·93	51·10
	Rural ...	726,832	24·19	27·56
Karáchi	Urban ...	97,009	60·33	95·36
	Rural ...	464,004	15·30	17·15
Hyderabad	Urban ...	54,512	27·59	45·40
	Rural ...	829,324	9·15	11·79
Thar and Párkar	Urban ...	3,698	45·70	228·77
	Rural ...	328,703	14·23	21·02
Shikárpur	Urban ...	82,936	33·44	34·57
	Rural ..	832,122	19·09	16·17
Upper Sind Frontier	Urban ...	8,258	40·08	38·27
	Rural ...	166,211	16·16	15·90
Presidency	Urban ...	2,304,373	47·88	64·10
	Rural ...	16,515,973	26·55	31·76

50. The recorded death-rates among the urban and rural populations of the Presidency were, respectively, 64·10 and 31·76 per 1,000 of population against 47·88 and 26·55 in 1898. Among the rural population the death-rate was higher than in the urban population in the collectorate of Kánara, where the rural death-rate exceeded the urban by 10·20.

51. In the undermentioned 22 collectorates and districts, the death-rates in the rural population were lower than in the urban :—

Collectorates.	Urban.	Rural.
Khándesh	42·59	39·75
Násik	96·82	46·67
Thána	53·45	36·56
Kolába	33·92	32·89
Ahmednagar	79·75	30·25
Poona	104·06	39·19
Sholápur	51·10	29·09
Sátára	51·01	33·74
Ratnágiri	40·50	21·41
Belgaum	65·21	43·68
Dhárwár	51·04	39·22
Bijápur	32·66	28·96
Surat	49·24	36·46
Broach	57·92	43·85
Kaira	49·52	36·32
Panch Mahals... ...	68·20	24·88
Ahmedabad	51·10	27·56
Karáchi	95·36	17·15
Hyderabad	45·40	11·79
Thar and Párkar ...	228·77	21·02
Shikárpur	34·59	16·17
Upper Sind Frontier ...	38·27	15·90

Death-rate in rural circles.

52. The death-rate in each táluka (rural registration circle) in the Presidency and in Sind is shown in the diagram on the opposite page, from which it will be seen that 49 tálukas recorded a high death-rate over 40 per mille. In 64 rural circles the death-rate was between 30 and 40 per mille, in 32 it was between 25 and 30, in 39 between 20 and 25, and in 46 the death-rate recorded was below 20 per mille.

53. The high death-rates in some of the rural registration circles in the collectorates of Násik, Thána, Poona, Sátára, Belgaum and Dhárwár were due to plague. The low death-rates under 20 per mille are mostly shown in tálukas of Sind, where registration is defective.

Birth and death-rates in sequence in towns.

54. It may be useful to show side by side the birth and death-rates in sequence in the town circles of this Presidency in order to exhibit the high death-rate that has taken place in some of them and the very low birth-rate which has been recorded in others.

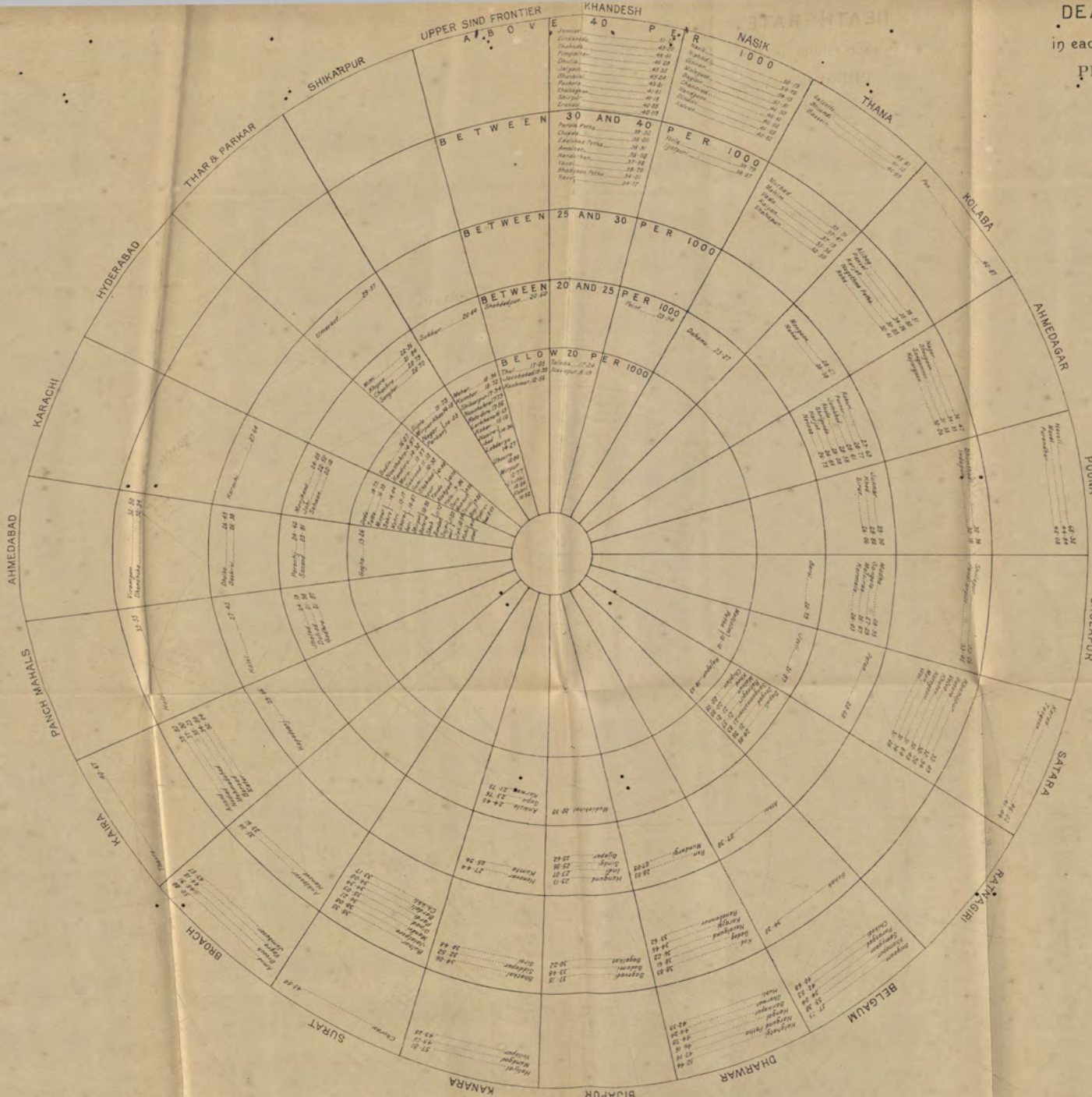
The high death-rate in Umarkot is due almost entirely to fever, which the Deputy Sanitary Commissioner, Sind, states is probably due to the reduced vitality of the population owing to scarcity.

DEATH RATE

in each taluka in the

PRESIDENCY

1899.

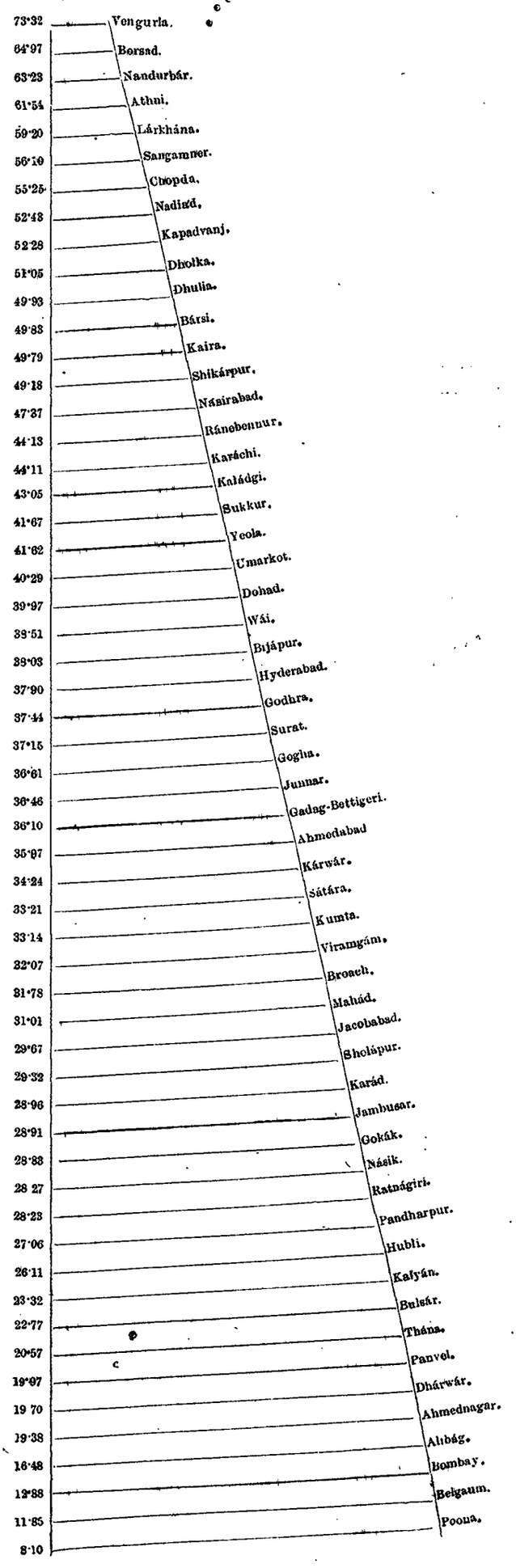


Sanitary Commissioner's Annual Report, Bombay.

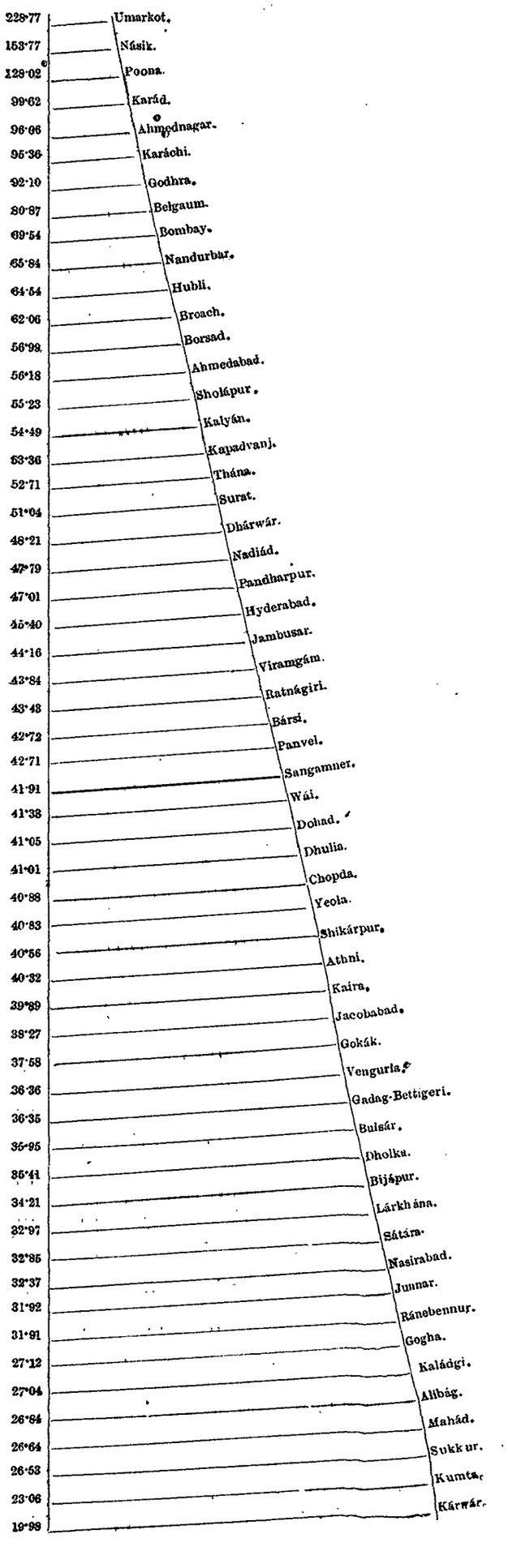
Drawn by Staal.

Litho Govt Photozinco Office, Poona 1900.

Birth-rate per 1,000.



Death-rate per 1,000.



Death-rate in cantonments in British territory.

55. The following table shows the recorded death-rate from all causes in each of the seven cantonments in British territory during 1899, contrasted with the results of the preceding year:—

Cantonments.	Ratio of deaths per 1,000 of population.	
	1898.	1899.
Devláli	45·79	43·18
Málegaon	25·01	40·44
Ahmednagar	9·09	33·40
Poona	18·17	59·61
Kirkee	18·77	42·47
Belgaum	88·05	79·19
Ahmedabad	13·14	10·35

In the cantonments of Málegaon, Ahmednagar, Poona and Kirkee the recorded death-rates in 1899 were higher than in 1898; in the cantonments of Poona and Kirkee the high death-rates were due to plague. In the other cantonments the recorded death-rate was lower than in 1898. In the cantonment of Belgaum, although the plague was prevalent, the recorded death-rate was lower in 1899 than in 1898—79·19 against 88·05 per 1,000 of population, respectively.

Statistics of cantonments in quasi-foreign territory.

56. The following table shows the vital statistics of the civil population of those cantonments which are situated in quasi-foreign territory. The total number of births registered in these cantonments during the year 1899 was 3,360 against 2,613 in 1898, the birth-rate being 31·35 per mille against 24·38 in 1898. The rates at Aden (Municipal limits), Bhúj and Rájkot are very low:—

Cantonments.	Ratio per 1,000 of population.	
	Birth-rate in 1899.	Birth-rate in 1898.
Aden (Municipal limits)	15·74	16·58
Baroda...	38·13	34·93
Bhúj	18·93	14·72
Deesa	44·25	30·88
Mhow	38·97	15·56
Nasirabad	47·74	39·80
Neemuch	32·18	33·09
Rájkot...	13·33	6·66

57. The total number of deaths in these cantonments during the year 1899 was 4,384, equal to a ratio of 40·90 per mille, against 3,733 or 34·83 in 1898. No deaths from cholera were recorded during the year. In 1898 there were also no deaths from this disease. Small-pox caused 52 deaths, and were recorded at Aden and Mhow—30 and 22, respectively. In 1898, 139 deaths from small-pox were recorded, all in the cantonment of Aden (Municipal limits).

58. The death-rates in the cantonments of Mhow and Nasirabad are very high, 55·09 and 49·34 per mille, respectively, and being due to fevers:—

Cantonments.	Population according to Census of 1891.	Area in square miles.	Average population per square mile.	Number of births.	Ratio of births per 1,000 of population.	Number of Deaths from							Ratio of Deaths per 1,000 of Population.						
						Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other causes.	All causes.	Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other causes.	All causes.
Aden { Municipal limits	38,422	..	...	605	15·74	...	30	544	145	8	593	1,320	...	·78	14·16	3·77	·21	15·43	34·35
Aden { Purely civil population of Cantonments	162	*5·	37·72	..	..	...	..	...	...	...	...	...	...	...	...	..	...	...	...
Baroda	2,806	1·	2806·	107	38·13	...	..	21	7	...	43	71	...	...	7·48	2·49	...	15·33	25·30
Bhúj	951	1·04	914·42	18	18·93	...	...	5	...	...	16	21	...	...	5·26	...	...	16·82	22·08
Deesa	8,462	5·	1690·40	374	44·25	...	..	50	31	...	222	303	...	...	5·91	3·67	...	26·27	35·85
Mhow	21,400	6·50	3292·35	834	38·97	...	22	782	10	9	356	1,179	...	1·03	36·54	0·47	0·42	16·63	55·09
Nasirabad	19,396	8·00	2424·50	926	47·74	...	..	540	52	5	360	957	...	...	27·84	2·69	0·25	18·56	49·34
Neemuch	15,291	4·52	3382·96	492	32·18	...	..	357	6	2	162	527	...	...	23·35	0·39	0·13	10·59	34·46
Rájkot	300	not	given.	4	13·33	...	...	1	...	...	5	6	...	...	3·33	...	...	16·66	19·99
Total ...	107,180	31·06	3,450·74	3,360	31·35	...	52	2,300	251	24	1,757	4,884	...	·49	21·46	2·34	·22	16·39	40·90

* This is the area of the whole Cantonment, Military and Civil. The population being mixed up with the Military, it is impossible to give the population per square mile.

SECTION VI.

HISTORY OF CHIEF DISEASES.

CHOLERA.

69. During 1899 cholera caused 8,579 deaths throughout the Presidency or 4,211 more than in the preceding year. The epidemic, as will be seen from the subjoined table, was most prevalent in the Belgaum, Karáchi and Dhárwár Collectorates, where 4,474 or 4·42, 2,394 or 4·27 and 1,335 or 1·27 deaths per 1,000 of population, respectively, took place; whilst the minimum mortality occurred in the Ahmednagar and Sholápur Collectorates, in which there is only 1 death registered.

Mortality in 1899.

60. The table given below shows the monthly distribution of these deaths in each affected collectorate as compared with 1898 :—

Monthly mortality.

Months.	Mean for 10 years, 1889—1898.		1898.		1899.		Nasik.	Bombay City.	Ahmednagar.
	Number of deaths.	Ratio per 1,000 of population.	Number of deaths.	Ratio per 1,000 of population.	Number of deaths.	Ratio per 1,000 of population.			
January	368	0·02	113	0·01	23	...	...	13	...
February	282	0·01	36	...	548	0·03	...	7	...
March	602	0·03	167	0·01	1,568	0·08	...	25	...
April	1,956	0·10	518	0·03	1,980	0·10	4	14	1
May	4,506	0·24	485	0·02	2,199	0·12	2	11	...
June	4,169	0·22	707	0·04	911	0·05	...	2	...
July	6,077	0·32	631	0·04	478	0·03	...	11	...
August	4,275	0·23	719	0·04	329	0·02	...	9	...
September	1,656	0·09	523	0·02	198	0·01	...	1	...
October	811	0·04	348	0·02	284	0·02	...	4	...
November	443	0·02	89	...	33	...	...	8	...
December	321	0·02	32	...	28	...	...	6	...
Total ...	25,466	1·34	4,368	0·23	8,579	0·46	6	111	1

Months.	Poona.	Sholápur.	Sátára.	Ratnágiri.	Belgaum.	Dhárwár.	Bijápur.	Kánara.	Karáchi.
January	...	...	...	...	10	...	...	...	...
February	...	...	...	...	197	308	...	36	...
March	...	...	...	...	953	558	...	31	1
April	...	1	...	...	1,557	376	...	17	10
May	...	...	2	...	303	62	...	15	1,804
June	...	...	...	...	411	12	83	13	390
July	...	...	...	...	340	9	10	3	105
August	2	...	...	...	253	8	...	...	57
September	...	...	...	...	176	1	2	...	18
October	...	...	...	2	249	...	20	...	9
November	...	...	...	...	25	...	...	...	...
December	...	...	...	...	...	1	21	...	...
Total ...	2	1	2	2	4,474	1,335	136	115	2,394

In December 1898 cholera deaths were reported from the collectorates of Belgaum and Dhárwár and the City of Bombay. In January of the year under report the disease was present only in the Belgaum Collectorate and in the City of Bombay, causing 10 deaths in the former and 13 in the latter. In February

548 deaths were returned from 3 collectorates, namely, Belgaum, Dhárwár and Kánara and the City of Bombay. In March, however, in addition to the above, the collectorate of Karáchi was affected and 1,568 deaths were registered. In April the disease increased and caused 1,980 deaths. In May the disease had spread to 7 out of the 24 collectorates in the Presidency and 2,199 deaths were reported from them, the maximum for the year. In June and July the disease was prevailing in 6 collectorates and were reported 1,389 deaths. In August, September and October there was a decrease, 811 deaths having been reported. In November there were 33 deaths from this disease in 2 collectorates, and in December only 28 deaths.

61. The next table shows the mortality from cholera by seasons. It will be seen that 1,916 deaths out of 8,579 were recorded in the rainy season of 122 days:—

Mortality by seasons.

Years.	Cold season (121 days).				Hot and dry (61 days).		Rainy season (122 days).				Hot and damp (61 days).		Total deaths from cholera.
	December (31).	January (31).	February (28).	March (31).	April (30).	May (31).	June (30).	July (31)	August (31).	September (30).	October (31).	November (30).	
1898...	32	113	36	167	518	485	707	631	719	523	348	89	4,368
1899...	28	23	548	1,568	1,980	2,199	911	478	329	198	284	33	8,579

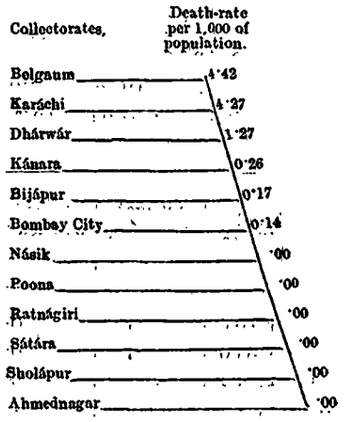
Mortality for 20 years from 1880 to 1899, inclusive.

62. The following table shows the total number of deaths from cholera in each of the twenty years ending 1899 :—

1880...	684	1890...	3,259
1881...	16,694	1891...	17,850
1882...	7,904	1892...	42,900
1883...	37,954	1893...	18,853
1884...	13,804	1894...	33,588
1885...	37,287	1895	8,890
1886...	167	1896...	35,404
1887...	25,711	1897...	57,109
1888...	36,500	1898...	4,368
1889...	32,431	1899...	8,579

Death-rates by collectorates.

63. The following diagram exhibits the death-rate from cholera per 1,000 of population in the affected collectorates, arranged in order of highest death-rate :—



From the above diagram it will be seen that in the Belgaum Collectorate the death-rate attained the high ratio of 4·42 per 1,000 of population. In the Karáchi Collectorate there was also a high ratio, namely, 4·27 per mille, whilst in the remaining collectorates the epidemic did not show high ratios.

Mortality in rural circles.

64. The details for each affected táluka in the different districts are given in the statement appended to the cholera map. Out of 220 rural circles or tálukas, 26 were affected by cholera. The following table shows, in order of highest death-rate, the rural circles, 9 in all, in which the death-rate from cholera exceeded 3 per 1,000 of population, and that the disease principally prevailed in 1 táluka in each of the Karáchi and Kánara Collectorates, in 5 of the Belgaum and in 2 of the Dhárwár Collectorates :—

Number in sequence.	Name of Rural Circle.	Name of Collectorate.	Population of the Circle.	Number of Cholera deaths.	Ratio per 1,000 of Population.
1	Karáchi R.C. ...	Karáchi	23,622	322	13·63
2	Sampgaon „ ...	Belgaum	132,631	1,549	11·68
3	Kalghatgi „ ...	Dhárwár	55,360	622	11·24
4	Dhárwár „ ...	Do.	72,478	419	5·78
5	Khánápur „ ...	Belgaum	85,577	459	5·36
6	Parasgad „ ...	Do.	110,582	495	4·47
7	Belgaum „ ...	Do.	106,308	384	3·61
8	Haliyál „ ...	Kánára	31,047	100	3·22
9	Chikodi „ ...	Belgaum	295,303	888	3·01

Mortality in towns.

65. Out of 56 town circles 12 were affected by cholera during the year; the table given below exhibits those towns in which the death-rate exceeded 1 per 1,000 of population. Of these, two towns are in the Belgaum and Dhárwár Collectorates, and one is in the Karáchi Collectorate :—

No.	Towns.	Collectorate.	Population.	Number of Cholera deaths.	Ratio per 1,000 of population.
1	Karáchi T.C. ...	Karáchi	97,009	2,064	21·25
2	Gokák „ ...	Belgaum	12,106	129	10·66
3	Dhárwár „ ...	Dhárwár	32,583	102	3·13
4	Hubli „ ...	Do.	52,194	70	1·34
5	Belgaum „ ...	Belgaum	28,342	37	1·31

Cholera in cantonments.

66. Out of 7 cantonments in the Presidency, Belgaum Cantonment was only affected by cholera, and 6 deaths took place.

Villages affected by cholera.

67. The affected area included 461 out of 25,143 villages in the Presidency. The highest percentage took place in Belgaum, where 259 villages out of 1,076 or 24·07 per cent. were affected. In Karáchi and Dhárwár Collectorates the percentages were 10·23 and 7·83, respectively :—

Collectorate.	Total Villages.	Villages affected by Cholera.	Percentages of affected villages to total villages.
Poona	1,191	1	0·08
Ratnágiri	1,310	1	0·08
Belgaum	1,076	259	24·07
Dhárwár	1,303	102	7·83
Bijápur	1,112	8	·72
Kánara	1,185	9	·76
Karáchi	792	81	10·23
Total ...	7,969	461	5·78

Collectorates in which cholera first appeared in towns and those in which it first invaded villages.

68. The following table shows the collectorates in which cholera first appeared in towns and those in which it first invaded villages :—

Collectorates in which Cholera first appeared in Towns.			Collectorates in which Cholera first appeared in Villages.		
Collectorates.	Towns and Cantonment.	Date of first appearance.	Collectorates.	Villages.	Date of first appearance.
Násik	Násik	4th April 1899.	Belgaum ...	Dematti	27th January 1899.
Bombay	Bombay City ...	7th January „ .	Bijápur... ...	Shivange	1st June „
Ahmednagar ...	Ahmednagar ..	21st April „ .	Kánara	Himaswad... ...	23rd February „
Poona	Poona City ...	2nd August „ .	Ratnágiri ...	Harnai	16th October „
Sholápur... ...	Sholápur ...	1st April „ .			
Sátára	Sátára	29th May „ .			
Dhárwár... ...	Dhárwár... ...	7th February „ .			
Karáchi	Karáchi... ...	31st March „ .			

Attacks and deaths.

69. The table given below represents attacks and deaths in each collectorate, the mean percentage being 70·35. In 10 collectorates the percentages of attacks to deaths were above the mean, whilst in the remaining 2 collectorates they were below it :—

Collectorate.	Attacks.	Deaths.	Percentages of attacks to deaths.
Násik	6	6	100·
Bombay City• ...	114	111	97·37
Ahmednagar ...	1	1	100·
Poona	2	2	100·
Sholápur... ...	1	1	100·
Sátára	2	2	100·
Ratnágiri ...	2	2	100·
Belgaum... ...	6,899	4,474	64·85
Dhárwár... ...	1,854	1,335	72·01
Bijápur	249	136	54·62
Kánara	150	115	76·67
Karáchi	2,915	2,394	82·13
Total ...	12,195	8,579	70·35 mean.

Statement appended to cholera map.

70. The map statement shows each collectorate affected by cholera, the name and number of each circle, its population, the dates of first and last cases, the total cholera deaths, their ratios per 10,000 of population, the period of maximum intensity, the number of villages in each rural circle, and the number of those affected and not affected by the disease.

1	2	3	4	5	6	7	8	9		10	11	
								Period of Maximum Intensity of the Disease.			Number of Towns	
Collectorate.	Number of Circle.	Name of Circle.	Population.	Date of first case of Cholera in the Circle during the year.	Date of last case of Cholera in the Circle during the year.	Total deaths from Cholera in the Circle during the year.	Ratio per 10,000.	From	To	Number of Villages in each of the rural circles	affected by	Not affected by
Násik	1	Násik T. C....	23,406	4th April 1899	29th May 1899	6	2·56	April 1899	May 1899	...	...	...
Bombay City .	2	Bombay City ...	806,114	7th Jan. ,,	26th Dec. ,,	111	1·38	January ,,	Dec. ,,	...	...	...
Ahmednagar .	3	Ahmednagar T. C....	36,031	21st April ,,	21st April ,,	1	0·28	April ,,	April ,,	...	...	...
Poona ...	4	Poona ,, ...	118,657	2nd Aug. ,,	2nd Aug. ,,	1	0·08	August ,,	August ,,	...	...	...
	5	Haveli R. C....	171,950	,, ,,	,, ,,	1	0·06	,, ,,	,, ,,	2.6	1	285
Sholápur ...	6	Sholápur T. C....	61,564	1st April ,,	3rd April ,,	1	0·16	April ,,	April ,,	...	...	...
Sátára ...	7	Sátára ,, ...	25,743	29th May ,,	30th May ,,	2	0·78	May ,,	May ,,	...	...	...
Ratnágiri ...	8	Dápoli R. C....	154,938	16th Oct. ,,	18th Oct. ,,	2	0·13	October ,,	October ,,	244	1	243
Belgaum ...	9	Sampgaon ,, ...	132,631	27th Jan. ,,	5th ,, ,,	1,549	116·79	January ,,	,, ,,	122	78	44
	10	Khánapur ,, ...	85,577	16th Feb. ,,	28th July ,,	459	53·63	February ,,	July ,,	217	46	171
	11	Parasgad ,, ...	110,582	26th Mar. ,,	6th Aug. ,,	495	44·71	March ,,	August ,,	125	27	98
	12	Belgaum ,, ...	106,308	1st ,, ,,	16th May ,,	384	36·21	,, ,,	May ,,	200	23	177
	13	Chikodi ,, ...	225,303	24th May ,,	24th Nov. ,,	838	30·07	May ,,	Nov. ,,	211	48	163
	14	Gokák ,, ...	106,434	19th April ,,	6th Aug. ,,	280	26·31	April ,,	August ,,	113	28	85
	15	Athni ,, ...	113,021	20th ,, ,,	8th Nov. ,,	245	21·68	,, ,,	Nov. ,,	84	9	75
	16	Belgaum T. C....	28,342	28th Feb. ,,	29th Aug. ,,	37	13·05	Feb. ,,	August ,,	...	...	...
	17	Gokák ,, ...	12,106	13th June ,,	15th Nov. ,,	130	107·38	June ,,	Nov. ,,	...	...	...
	18	Athni ,, ...	10,416	19th April ,,	20th April ,,	1	0·96	April ,,	April ,,	...	...	...
	19	Belgaum Cantonment.	10,733	26th Mar. ,,	24th ,, ,,	6	5·59	March ,,	,, ,,	...	...	...
Dhárwár...	20	Kalghatgi R. C....	55,360	11th Feb. ,,	25th Sept. ,,	622	112·35	February ,,	Sept. ,,	105	45	60
	21	Dhárwár ,, ...	72,478	10th ,, ,,	31st May ,,	419	57·81	,, ,,	May ,,	79	43	36
	22	Hubli ,, ...	65,584	22nd ,, ,,	29th ,, ,,	110	16·77	,, ,,	,, ,,	69	8	61
	23	Bankápur ,, ...	85,802	14th Mar. ,,	15th Mar. ,,	3	0·35	March ,,	March ,,	143	1	142
	24	Navalgund ,, ...	76,538	11th April ,,	24th April ,,	6	0·78	April ,,	April ,,	57	2	55
	25	Nargund ,, ...	29,387	21st ,, ,,	21st ,, ,,	1	0·34	,, ,,	,, ,,	30	1	29
	26	Ránebennur ,, ...	79,214	2nd ,, ,,	2nd ,, ,,	1	0·13	,, ,,	,, ,,	116	1	115
	27	Karajgi ,, ...	90,199	29th Dec. ,,	30th Dec. ,,	1	0·11	Dec. ,,	Dec. ,,	140	1	139
	28	Dhárwár T. C....	32,583	7th Feb. ,,	16th June ,,	102	31·30	Feb. ,,	June ,,	...	...	...
	29	Hubli ,, ...	52,194	13th ,, ,,	23rd Aug. ,,	70	13·41	,, ,,	August ,,	...	...	...
Bijápur ...	30	Bijápur R. C....	65,472	1st June ,,	29th Dec. ,,	24	3·66	June ,,	Dec. ,,	92	3	89
	31	Bágalkot ,, ...	89,132	7th ,, ,,	18th Oct. ,,	77	8·64	,, ,,	October ,,	157	4	153
	32	Bádámi ,, ...	89,047	6th ,, ,,	9th July ,,	35	3·93	,, ,,	July ,,	168	1	167
Kánara ...	33	Haliyál ,, ...	31,047	23rd Feb. ,,	4th ,, ,,	100	32·21	Feb. ,,	,, ,,	99	6	93
	34	Yellápur ,, ...	18,234	12th Mar. ,,	28th Mar. ,,	5	2·74	March ,,	March ,,	78	1	77
	35	Mundgod ,, ...	16,063	30th April ,,	7th May ,,	6	3·73	April ,,	May ,,	68	1	67
	36	Supa ,, ...	32,239	1st May ,,	5th ,, ,,	4	1·24	May ,,	,, ,,	132	1	131
Karáchi ...	37	Karáchi ,, ...	23,622	24th ,, ,,	7th Oct. ,,	322	136·31	,, ,,	October ,,	13	*79	...
	38	Sákro ,, ...	26,063	12th July ,,	17th July ,,	8	3·07	July ,,	July ,,	71	2	69
	39	Karáchi T. C....	97,009	31st Mar. ,,	7th Oct. ,,	2,064	212·76	March ,,	October ,,	...	...	...

* The majority of these are hamlets.

Cholera map.

71. The map illustrates the distribution and mortality from cholera in the different registration circles in which the disease prevailed. A statement is embodied for easy reference, showing the area, population, density per square mile, number of registration circles and villages of each district; also the number of villages affected by cholera, deaths from different causes, birth and death ratios per 1,000 of population, and dates of the first and last cases of cholera. The map has also been coloured in different shades of brown according as a high or low death-rate obtained in the affected districts.

Tabular statements showing cholera deaths and meteorological conditions.

72. The statements in Appendix III show the daily recorded deaths from cholera and the daily meteorological conditions observed at the nearest observatory.

Small-pox.

Small-pox mortality.

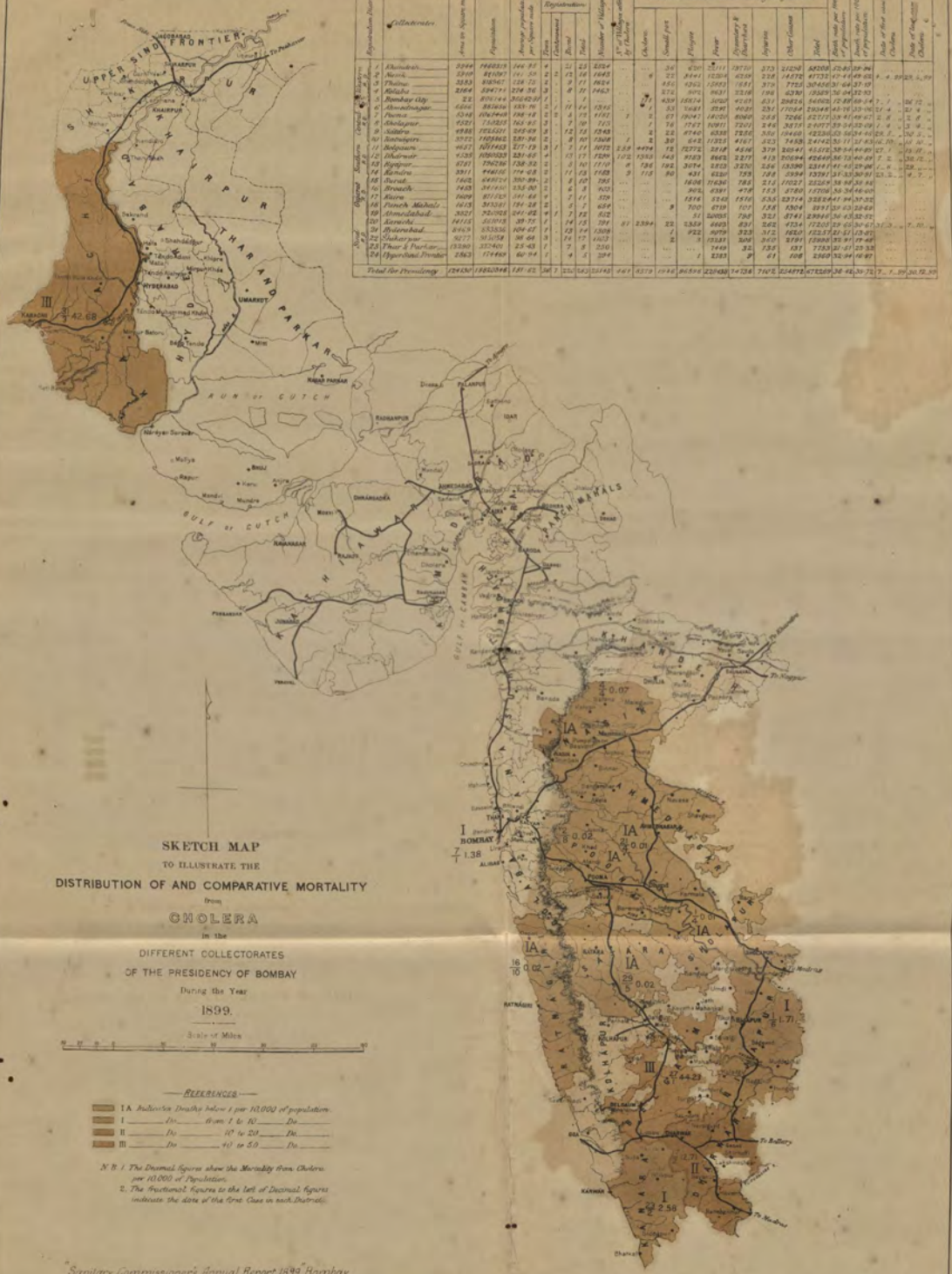
73. There were 1,946 deaths from small-pox (995 males and 951 females) against 1,834 in 1898 and a decennial mean of 3,540.

Small-pox deaths since 1888.

74. The number of deaths registered under this head since 1888 is as follows:—

STATEMENT SHEWING VITAL STATISTICS &c. IN EACH COLLECTORATE DURING 1899.

Registration Districts	Collectorates	Area in Square Miles	Population	Average population per Square mile	Circles of Registration: Towns	Villages	Number of Villages attacked by Cholera	Number of deaths recorded during the year from: Cholera	Small pox	Fever	Dysentery & Diarrhoea	Injuries	Other Causes	Total	Death rate per 1000 of population	Death rate per 1000 of population	Date of first case of Cholera	Date of last case of Cholera
Central Sindh	1 Khairpur	3946	440825	112	1	11	11	2234		36	6701	22111	13731	373	21278	83208	23.86	18.94		
	2 Nawab	3398	261987	77	2	12	12	1693		6	22	3441	10304	238	14578	47733	17.44	69.05	4	4.99
	3 Thatta	3383	218567	64	2	9	11	1624			456	4362	12493	1681	379	7725	30.45	35.36	37.19	
	4 Kolaba	2164	594771	274	3	8	11	1463			272	570	9631	2316	196	6390	19.58	30.94	32.93	
	5 Bombay City	22	821464	37340	1	1					439	10574	3490	4105	831	29826	54.08	12.88	66.96	7. 7.
	6 Ahmednagar	6866	881836	128	2	11	14	1395		1	53	1481	5191	4021	231	11054	29.98	43.76	33.16	21. 4.
	7 Poona	5348	1067468	196	3	5	15	1161	1	2	67	19047	18030	8069	268	7266	52.77	33.81	69.67	2. 8.
	8 Sholapur	5321	736223	142	2	3	10	729		1	16	1767	10911	7201	246	3431	21.07	33.24	32.09	1. 4.
	9 Satara	4988	1025321	205	3	12	13	1348		2	22	4740	6338	7256	356	19460	42.23	36.03	56.94	46. 5.
	10 Ratnagiri	3572	1109462	311	2	8	10	1368	1	1	30	642	11233	4161	323	7458	24.42	33.11	37.83	16. 10.
Northern Division	11 Belgaum	4632	1031463	222	3	5	14	1693	2.58	4474	12	15772	3218	4236	379	26041	45.02	38.54	84.80	17. 1.
	12 Dharwar	4138	1090023	263	4	12	17	1289	1.02	1395	148	9183	8662	2277	413	20694	42.64	36.13	60.69	7. 2.
	13 Bijapur	6781	1142286	168	3	3	10	1113	4	196	192	3074	2823	3270	256	13390	23.41	91.43	29.96	1. 8.
	14 Kaladgi	3911	814416	208	3	1	13	1188	3	115	80	431	6320	795	188	3984	13.79	37.33	30.91	23. 2.
	15 Surat	1402	649124	390	2	8	10	795				1606	11630	785	213	11027	23.26	38.98	36.86	
	16 Broach	1463	341450	233	2	6	3	403				903	6391	478	153	8780	15.08	36.34	46.60	
	17 Kaira	1609	811152	504	2	7	10	529				1316	5348	1576	535	23714	33.23	41.34	39.32	
	18 Panch Mahals	1615	313381	194	2	5	7	654			9	700	6719	701	158	9304	29.17	33.63	28.69	
	19 Ahmedabad	3821	932025	244	2	7	12	822				51	24035	796	321	8741	23.96	34.43	32.52	
	20 Kaira	1415	261915	185	1	14	15	784				1359	4403	831	362	4134	17.20	28.60	34.67	31. 5.
	21 Hyderabad	2469	533536	216	1	13	14	1308		1	922	9979	923	512	5820	17.23	22.51	17.39		
	22 Shikarpur	5277	913158	173	3	14	17	1403			2	3	13131	306	960	5791	13.98	33.91	19.48	
Southern Division	23 Thar & Parkar	15390	222401	14	3	1	3	236					1449	33	135	637	7.33	21.27	23.33	
	24 Upper Sind Frontier	2563	174493	68	1	4	5	394				1	2383	9	61	108	2.969	32.94	46.97	
Total for Presidency		124430	19820948	159	71	226	343	33140	14.61	8379	1918	96598	220438	74736	7162	214872	477269	24.08	36.12	7. 7.	39. 30. 12. 30.



SKETCH MAP

TO ILLUSTRATE THE

DISTRIBUTION OF AND COMPARATIVE MORTALITY

from

CHOLERA

in the

DIFFERENT COLLECTORATES

OF THE PRESIDENCY OF BOMBAY

During the Year

1899.

Scale of Miles

0 10 20 30 40 50

References

- 1A. Collective Deaths below 1 per 10,000 of population.
- I ____ Do. ____ from 1 to 10 ____ Do.
- II ____ Do. ____ 10 to 20 ____ Do.
- III ____ Do. ____ 40 to 5.0 ____ Do.

N. B. 1. The Decimal figures show the Mortality from Cholera per 10,000 of Population.

2. The fractional figures to the left of Decimal figures indicate the date of the first Case in each District.

"Sanitary Commissioner's Annual Report 1899." Bombay.

Gov^t Photozinco Office, Poona. 1900.

Year.	Number of deaths.	Year.	Number of deaths.
1888	3,617	1894... ...	3,155
1889	7,066	1895... ...	2,229
1890	2,877	1896... ...	6,443
1891	1,491	1897... ...	3,835
1892	2,770	1898... ...	1,834
1893	3,567	1899... ...	1,946
	21,388		19,442

Deaths by districts and collectorates.

75. The following table shows the deaths during 1899 arranged according to registration districts and collectorates :—

Districts.	No.	Collectorates.	Population according to Census of 1891.	Deaths from Small-pox.					
				Mean for 10 years from 1889 to 1898.	Ratio per 1,000 of population.	1898.	Ratio per 1,000 of population.	1899.	Ratio per 1,000 of population.
Western Registration District.	1	Khándesh	1,460,319	606	0·43	618	0·42	36	0·02
	2	Násik	841,087	265	0·31	189	0·22	22	0·03
	3	Thána	818,967	204	0·25	63	0·07	456	0·56
	4	Bombay	806,144	291	0·36	55	0·07	439	0·54
	5	Kolába	594,779	128	0·22	3	...	272	0·46
Central Registration District.	6	Ahmednagar ...	887,656	76	0·09	140	0·16	53	0·06
	7	Poona	1,061,449	178	0·17	76	0·07	67	0·06
	8	Sholápur	750,255	98	0·14	157	0·21	76	0·10
	9	Sátára	1,225,611	72	0·06	23	0·02	22	0·02
	10	Ratnágiri	1,105,862	168	0·16	...	...	30	0·03
Southern Registration District.	11	Belgaum	1,011,453	130	0·13	38	0·04	12	0·01
	12	Dhárwár	1,050,533	275	0·27	171	0·16	145	0·14
	13	Bijápur	796,286	135	0·18	99	0·12	192	0·24
	14	Kánara	446,156	94	0·21	107	0·24	90	0·20
Gujarát Registration District.	15	Surat	649,824	103	0·16	1	...	...	...
	16	Broach	341,450	86	0·25	...	...	...	...
	17	Kaira	871,629	45	0·05	1	...	...	...
	18	Panch Mahals ...	313,381	38	0·12	1	...	9	0·03
	19	Ahmedabad... ...	920,928	62	0·07	7	0·01	...	...
Sind Registration District.	20	Karáchi	561,013	158	0·31	14	0·02	22	0·04
	21	Hyderabad ...	883,836	158	0·18	3	...	1	...
	22	Thar and Párkar ...	332,401	70	0·23	61	0·18	...	...
	23	Shikárpur	915,058	84	0·09	...	...	2	0·01
	24	Upper Sind Frontier.	174,469	16	0·10	7	0·94	...	...

Abstract.

Western Registration District	4,521,296	1,494	0·34	928	0·21	1,225	0·27
Central do.	5,030,733	592	0·12	396	0·08	248	0·05
Southern do.	3,304,428	634	0·20	415	0·13	439	0·13
Gujarát do.	3,097,112	334	0·11	10	...	9	...
Sind do.	2,866,777	486	0·18	85	0·03	25	0·01
Total ...	18,820,346	3,540	0·19	1,834	0·10	1,946	0·10

The number of deaths from small-pox (1,946) during the year, though higher by 112 than the preceding year, was the lowest record with two exceptions during the last twelve years. The Western Registration District was the most affected, after it came the Southern and Central Registration Districts, Sind was very slightly affected, and the Gujarát Registration District gave only 9 deaths. The ratio per mille was 0·10, against 0·10 in 1898, and 0·19 the decennial mean. These figures may be considered very satisfactory and they testify to the exceedingly good vaccination work which now for some years has been done in the Presidency. As regards collectorates, there was an increase

in Thána, Bombay and Kolába in the Western, Ratnágiri in the Central, Bijápur in the Southern, Panch Maháls in Gujarát and Karáchi in Sind Registration Districts. The highest death-rate (0·56) occurred in Thána and the lowest (0·01) in Belgaum and Shikárpur. The death-rates 0·54 per mille in the City of Bombay and 0·46 in the collectorate of Kolába were much higher during the year 1899 than in 1898, 0·07 and nil respectively. There was only one death from small-pox in the Hyderabad Collectorate, whilst in the collectorates of Surat, Broach, Kaira, Ahmedabad and in the districts of Thar and Párkar and Upper Sind Frontier no deaths from small-pox were recorded.

Deaths by ages.

76. In the following table these deaths are shown by ages and month, the latter being contrasted with the corresponding months of 1897 and with the mean of the previous five years. In 1899, 28·37 per cent. of these deaths occurred amongst infants under 1 year of age, whilst 45·73 per cent. took place among children 1 to 10 years, the remaining 25·90 being among persons over 10 years of age:—

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Total deaths from small-pox in each month.	5 years' mean ...	310	467	728	686	442	253	152	83	54	55	92	191	3,513
	1898	264	403	435	280	111	67	63	39	44	36	40	52	1,484
	1899	116	152	179	187	164	161	155	129	95	78	148	383	1,946
Deaths under one year	5 years' mean ..	88	136	213	205	128	66	39	19	14	16	30	50	1,004
	1898	75	114	142	61	33	14	16	6	7	8	13	17	505
	1899	32	42	44	57	44	39	42	42	30	23	47	110	552
1 to 10 years	5 years' mean ...	167	238	374	347	218	117	74	40	27	25	46	109	1,776
	1898	164	193	215	150	53	30	35	20	27	20	16	25	948
	1899	67	66	82	94	72	78	55	57	39	41	78	164	890
Above 10 years	5 years' mean ...	55	93	141	134	101	70	39	24	13	14	17	32	733
	1898	25	96	78	69	25	23	12	13	10	8	11	10	380
	1899	17	44	53	36	48	54	58	30	25	14	26	99	504

Fever.

As stated in paragraph 82 of the Annual Sanitary Report for 1898, a separate sub-section for the deaths from plague is given.

Fever mortality.

77. There were 228,438 deaths registered under the heading "Fever" (120,540 males and 107,898 females) against 216,324 in 1898, thus there was an increase of 12,114 deaths as compared with the previous year; the decennial mean is 384,517 which includes the deaths from plague for the past three years.

Fever deaths since 1888.

78. The number of deaths registered from fever in each year since 1888 is as follows:—

Years.	Number of deaths from fever.	Years.	Number of deaths from fever.
1888	304,449	1894	429,094
1889	346,878	1895	388,848
1890	344,897	1896	410,143
1891	368,913	1897	405,652
1892	438,038	1898	216,324
1893	361,160	1899	228,438
Total ...	2,164,335	Total ...	2,078,499
Mean ...	360,722	Mean ...	346,417

Deaths by districts and collectorates.

79. In the following table the deaths are shown by districts and collectorates:—

Districts.	No.	Collectorates.	Population according to Census of 1891.	Deaths from Fever. Mean for ten years from 1889 to 1898.	Ratio per 1,000 of Popu. lation.	1898.	Ratio per 1,000 of Popu-lation.	1899.	Ratio per 1,000 of Popu-lation.
Western Registration District.	1	Khándesh	1,460,319	36,057	25·47	17,004	11·64	22,111	15·14
	2	Násik	841,087	20,879	25·16	9,600	11·41	12,204	14·51
	3	Thána	818,967	16,303	19·96	12,002	14·65	15,883	19·39
	4	Bombay...	806,144	10,471	13·10	4,085	5·07	5,020	6·23
	5	Kolába	594,779	9,969	17·42	6,783	11·40	9,631	16·19
Central Registration District.	6	Ahmednagar	887,656	18,698	21·73	3,858	4·35	5,297	5·97
	7	Poona	1,061,449	22,167	21·54	13,624	12·84	18,020	16·98
	8	Sholápur	750,255	16,313	22·76	5,688	7·58	10,911	14·54
	9	Sátára	1,225,511	27,906	23·39	8,063	6·58	6,338	5·17
	10	Ratnágiri	1,105,862	13,600	12·58	13,605	12·30	11,325	10·24
Southern Registration District.	11	Belgaum	1,011,453	15,335	15·61	2,820	2·79	2,818	2·79
	12	Dhárwár	1,050,533	20,502	20·16	10,910	10·38	8,662	8·25
	13	Bijápur...	796,286	13,388	17·51	6,575	8·26	2,823	3·55
	14	Kánara	446,156	7,201	16·32	6,281	14·08	6,220	13·94
Gujarát Registration District.	15	Surat	649,824	16,028	24·94	7,851	12·08	11,636	17·91
	16	Broach	341,450	11,011	32·53	9,164	26·84	8,391	24·57
	17	Kaira	871,529	23,444	27·32	14,614	16·77	5,243	6·02
	18	Panch Mahals	313,381	7,004	23·21	7,483	23·88	6,719	21·44
	19	Ahmedabad	920,928	26,600	29·29	18,656	20·26	20,035	21·75
Sind Registration District.	20	Karáchi...	561,013	10,457	19·20	6,894	12·29	6,603	11·77
	21	Hyderabad	883,836	12,997	15·15	7,780	8·80	9,079	10·27
	22	Thar and Párkar ...	332,401	5,052	16·48	4,403	13·25	7,449	22·41
	23	Shikárpur	915,058	20,078	22·24	15,891	17·27	13,237	14·47
	24	Upper Sind Frontier ...	174,469	3,057	18·59	2,780	15·93	2,783	15·95

Abstract.

Western Registration District	4,521,296	93,679	21·13	49,474	10·94	64,849	14·34
Central do. do.	5,030,733	98,684	20·21	44,838	8·91	51,891	10·31
Southern do. do.	3,304,428	56,426	17·61	26,586	8·05	20,523	6·21
Gujarát do. do.	3,097,112	84,087	27·58	57,768	18·65	52,024	16·80
Sind do. do.	2,866,777	51,641	18·60	37,658	13·14	39,151	13·66
Total ...	18,820,346	384,517	20·96	216,324	11·49	228,438	12·14

N.B.—The mean for 10 years includes the deaths from plague.

The death-rate under the heading "Fever" was 12·14 per mille compared with 11·49 for the previous year and a decennial mean of 20·96, and this includes the deaths from plague during the years from 1896 to 1898. The death-rates in the Western and Central Registration Districts were higher during the year than that for 1898. In Sind the death-rate was nearly the same as that for 1898, and in the remaining districts it is lower than the previous year. In the collectorates of Khándesh, Násik, Thána, City of Bombay, Kolába, Ahmednagar, Poona, Sholápur, Surat, Ahmedabad, Hyderabad and the district of Thar and Párkar there was an increase in the ratios during the year over 1898. The collectorate of Broach heads the list with a very high ratio 24·57 per mille against 26·84 in 1898 and 32·53 in the previous ten-year mean. In the collectorates of Panch Mahals and Ahmedabad and in the districts of Thar and Párkar high ratios are observed, 21·44, 21·75 and 22·41 per mille, respectively.

80. The table in the margin shows the monthly distribution of deaths ascribed to fever as compared with the mean and with the corresponding months of the previous year. The number of deaths in each month during the year is higher than in the corresponding month of the previous year, except August, September, October and November. In June the lowest mortality for the year was as usual reported and in July and August a rise took place, but in September there was a fall and in October a rise again took place which reached its maximum in December.

Deaths by months.

Months.	Mean for ten years, 1889-1898.	1898.	1899.
January	34,623	21,905	23,639
February... ...	29,856	17,415	19,949
March	32,805	18,613	23,269
April	31,973	16,469	18,694
May	28,551	15,316	16,659
June	25,545	14,197	14,554
July	29,493	15,136	15,344
August	33,554	16,643	16,495
September ...	32,294	17,033	15,878
October	34,367	19,413	18,541
November ...	36,537	22,638	20,688
December ...	34,919	21,546	25,328
Total ...	384,517	216,324	228,438

N.B.—The mean for 10 years includes the deaths from plague.

MONTHLY RAINFALL FOR THE YEAR 1899.

* [The average is that of 11 years (1887-1897).]

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. 1899.	Total. * Average.	Total. 1898.	Remarks.
	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	I. cts.	
Khándesh— Dhulia	...	...	...	0 30	0 20	4 43	1 41	1 52	0 68	...	...	...	8 54	26 22	21 3	
Násik— Násik	...	...	...	0 25	1 90	7 18	1 02	0 89	3 31	...	...	0 02	14 57	30 6	27 50	
Ahmednagar— Ahmednagar ...	...	...	...	1 16	0 45	6 19	0 35	0 71	3 36	0 12	...	...	12 32	23 68	14 78	
Poona— Poona	...	...	...	2 41	0 47	3 75	1 30	0 63	2 67	1 05	...	...	12 37	35 10	22 92	
Sholápur— Sholápur	...	...	...	0 30	0 71	1 12	0 13	1 84	8 71	...	...	...	13 81	28 58	34 85	
Sátára— Sátára	...	...	...	3 90	0 36	5 37	3 24	1 95	4 81	0 71	...	..	20 34	44 63	35 97	
Belgaum— Belgaum	...	...	0 15	3 22	0 90	9 15	4 11	1 88	8 01	1 21	...	...	28 63	51 36	52 79	
Bijápur— Bijápur	...	...	0 29	1 24	1 44	2 35	0 24	2 93	10 53	...	...	...	19 7	25 63	26 8	
Dhárwár— Dhárwár	...	...	0 95	3 04	1 55	4 73	2 53	0 88	6 28	3 30	...	...	23 26	37 74	41 95	
Kánara— Kárwár	...	...	...	4 99	3 65	32 88	8 65	15 35	4 07	2 63	0 11	...	72 33	122 57	133 75	
Ratnágiri— Ratnágiri	...	...	...	0 32	0 77	28 10	8 71	10 49	9 34	1 48	...	...	59 21	101 97	118 97	
Kolába — Alibág	...	...	...	3 40	...	22 92	4 71	7 78	5 64	...	...	...	44 45	94 49	111 48	
Thána— Thána	...	...	...	0 36	0 78	20 02	8 65	8 24	3 79	0 03	...	...	41 87	105 93	108 30	
Surat— Surat	...	...	...	...	0 62	16 32	0 87	0 74	0 54	...	...	...	18 49	46 2	32 53	
Broach— Broach	...	...	...	...	...	8 22	0 29	0 66	0 44	...	...	...	9 61	42 78	47 51	
Kaira— Kaira	...	...	...	...	0 15	3 91	0 20	0 14	1 65	...	...	...	6 5	37 48	34 63	
Panch Mahals— Godhra	...	...	...	...	0 96	6 27	1 24	...	0 14	0 03	...	0 03	8 67	40 85	43 40	
Ahmedabad— Ahmedabad ...	...	...	...	...	0 06	3 08	0 13	0 02	1 43	...	...	...	4 72	32 29	36 53	

January and February.—There was no rain.

March.—There was no rain beyond a few cents in the collectorates of Belgaum, Bijápur and Dhárwár.

April and May.—There was rain in nearly all the districts, somewhat heavy during April and exceeding the normal in Sátára, Belgaum, Dhárwár, Kánara and Kolába.

June.—The rainy season opened with mild monsoonish weather on the 5th June, with a short spell of rain in Kánara and in parts of the Deccan and the Karnátak. Rain again commenced to fall from the 10th, reaching Gujarát about the middle of the month; but the monsoon current not being very strong, it ceased to rain in the Deccan and the Karnátak. The month closed with a general want of rain, specially felt in the eastern tálukas of the Deccan and the Karnátak.

July.—In the Deccan the month's rain was far short of the average everywhere. In the Karnátak there was rain, but it was in very light showers. In the Konkan and Gujarát the month's rainfall was far short of the average.

August.—In the Deccan and the Karnátak the rain fell in light showers, but for the month it was much below the average.

In the Konkan it rained almost daily after the 6th, but light; total rainfall about one-fifth to one-half the usual fall.

In the Gujarát the month's rain was much under the average in Surat and part of Broach, elsewhere practically no rain.

September.—In the Deccan the month's rain was in defect of the average in Khándesh, Násik and the western parts of Sátára and Poona. In the Karnátak it was throughout above the average. In the Konkan the total fall in the month was very much under the average. In the Gujarát the month's rain in the majority of the tálukas did not amount even to an inch, in places there was practically no rain.

October.—In the Southern Deccan districts rain fell generally in light showers on 14th and between 23rd and 25th; elsewhere in the Deccan there was practically no rain; total rainfall throughout insufficient. In the Karnátak the month's rainfall was much in defect of the average.

In the Konkan the rainfall was between one-half and one-third the usual fall in Kánara, much below this in Ratnágiri, and practically none in the Thána and Kolába Districts. In Gujarát there was no rain, except a few drops at Paránti and Modása.

November and December.—There was no rain.

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY.

TABLE A.

Comparative Statement showing the Mortuary and Meteorological Statistics of the undermentioned Collectorates in the Bombay Presidency, together with the Price Current of the Chief Food-grains, for 1899 and five years preceding it.

District.	Years.	Population.	Total deaths.	Deaths from				Temperature in shade.			Mean Humidity.	Wind.		Rainfall (in inches).	Average quantity in seers per Rupee of the Chief Food-grains in general use in the Districts.							Remarks.
				Cholera.	Small-pox.	Fever. †	Dysentery and Diarrhœa.	Maximum.	Minimum.	Mean.		Prevailing.	Mean velocity (in miles).		Rice.	Wheat.	Barley.	Jowári.	Gram.	Rági.	Bájri.	
Surat ...	Average.*		...	...	...	...	...	...	...	...	...	.....	...	46 2	...	...	...	...	...	...	...	
	1899 ...		25,269	...	...	13,242	785	108·	46·	77·	42·	S. W.	½ mile per hour.	18 49	8	10	....	16	11	...	12	
	1898 ...	649,824	20,420	...	1	10,403	631	109·6	50·3	79·9	45·	S. W.	½ mile per hour.	32 52	8	9	...	17	11	...	15	
	1897 ...		25,270	1°3	59	15,650	464	112·6	48·5	80·4	43·7	S. W.	...	39 2	7							
	1896 ...		22.695	1,142	514	18,4 3	145	108·9	50·	79·4	43·9	S. W.	...	42 83	7	6	...	9	10	...	9	
	1895 ...		17,796	5	61	15,225	118	108·9	50·	79·4	48·	S S. W., N. N. W.	...	29 7	8	9	...	14	14	...	12	
	1894 ...		24,585	1,090	88	20,107	171	109·3	48·	78·5	47·	W. S. W.... ...	...	65 8	8	14	...	15	15	...	13	
Khándesh ...	Average.*		...	...	...	...	...	...	...	...	...	.....	...	26 22	...	12	...	15	13	...	12	
	1899 ...		58,208	...	36	22,731	13,770	97·4	59·6	78·5	...	.....	...	8 54	...	...	...	...	...	...	...	
	1898 ...		41,491	...	618	17,234	8,594	93·5	60·	76·1	...	.....	...	23 63	9 2/16	...	...	16 2/16	...	...	14 2/16	
	1897 ...	1,460,319	62,510	3,351	1,136	43,137	7,736	93·9	68·4	81·1	...	.....	...	30 69	7 4/16	...	...	22 14/16	...	...	20 11/16	
	1896 ...		56,948	1,740	1,373	43,271	4,838	94·9	61·1	78·	...	.....	...	27 51	8 13/16	...	...	9 2/16	...	...	8 8/16	
	1895 ...		50,546	1,002	506	39,998	4,517	93·6	59·	76·3	...	.....	...	31 12	7 7/16	...	...	17 12/16	...	...	14 15/16	
	1894 ...		53,965	4,120	916	40,310	5,714	93·6	60·2	76·9	...	.....	...	25 83	10 4/16	...	...	23 5/16	...	...	19 6/16	
Násik ...	Average.*		...	...	...	...	...	...	...	...	...	.....	...	30 6	...	...	...	20 9/16	...	...	18 4/16	
	1899 ...		41,732	6	22	20,645	6,269	99·	49·	74·	...	W....	...	14 57	...	...	...	...	...	...	...	
	1898 ..		26,851	...	189	11,551	5,321	104·	51·	77·5	...	E.	...	27 49	9 15/16	...	...	...	...	...	12 7/16	
	1897 ...	841,087	46,800	3,410	183	26,853	7,841	102·	50·	76·	...	W.	...	28 36	7 5/16	...	...	...	...	...	16 3/16	
	1896 ...		36,807	1,136	687	25,508	3,981	104·	51·	77·5	...	W....	...	36 34	10 12/16	...	...	...	...	...	8 6/16	
	1895 .		31,115	682	309	21,761	3,062	102·	50·	76·	...	S. W.	...	29 51	9 1/16	...	...	...	...	...	14 7/16	
	1894 ...		32,751	1,866	73	24,819	3,347	104·	54·	73·3	...	S. W.	...	30 8	11 5/16	...	...	...	...	...	20 15/16	
																					15 3/16	

| | | |

TABLE B.

Monthly Details of above Statement for the year 1899.

1899.	Temperature of Air.			Of Barometric Pressure Mean at 8 hours.	Humidity Mean at 8 hours.	Rainfall.	Days of Rain.	Wind.				Price per Rupee.				Deaths per 1,000 of Population.	
	Mean Maximum.	Mean Range.	Mean Minimum.			Inches.		N.	N. N. E. to S. S. E.	S.	S. S. W. to N. N. W.	Wheat.	Rice, 2nd sort.	Jowári.	Bájri.	Fever.	Cholera.
				Inches.	Per cent.							S. ch.	S. ch.	S. ch.	S. ch.		
January—																	
Surat	85·0	31·5	53·5	30·029	52	...	...	4	18	1	...	11 9	8 13	22 2	18 9	1·94	...
Málegaon	83·8	38·0	45·8	28·602	56	...	...	1	1	...	26	12 15	9 8	...	16 15	1·66	...
Poona	85·3	36·3	49·0	28·192	53	...	...	...	5	1	20	10 7	12 0	23 8	18 6	1·35	...
Sholápur	87·1	31·2	55·9	28·438	33	...	...	...	18	1	8	13 15	12 11	28 2	24 2	0·85	...
Belgaum	82·3	27·1	55·2	27·458	55	...	...	...	2	...	10	13 3	13 10	21 13	21 7	0·26	·01
February—																	
Surat	91·1	31·0	60·1	29·958	61	...	...	3	14	...	...	11 9	8 13	20 13	18 1	2·11	...
Málegaon	90·5	35·8	54·7	28·536	63	...	...	...	...	...	27	14 6	10 4	...	16 15	1·28	...
Poona	91·6	35·5	56·1	28·137	52	...	...	...	1	...	21	11 10	10 13	23 0	18 6	1·12	...
Sholápur	93·4	29·9	63·5	28·375	31	...	...	...	13	...	13	14 14	12 11	30 6	25 0	0·90	...
Belgaum	87·7	28·3	59·4	27·415	48	...	...	2	10	...	7	14 3	13 10	21 13	21 7	0·17	·20
March—																	
Surat	99·8	31·9	67·9	29·925	55	...	...	8	12	5	3	12 8	8 13	21 11	17 9	2·14	...
Málegaon	99·3	35·7	63·6	28·514	61	...	...	...	1	...	28	14 6	10 4	...	16 4	1·27	...
Poona	100·2	36·4	63·8	28·122	38	...	...	...	2	...	29	11 10	10 13	21 14	18 6	1·65	...
Sholápur	101·1	29·6	71·5	28·349	29	0·11	1	3	11	1	10	16 12	12 11	31 4	23 4	1·18	...
Belgaum	93·5	29·4	64·1	27·413	56	0·19	1	2	14	...	7	15 3	13 2	21 13	21 7	0·16	·94
April—																	
Surat	97·9	24·1	73·8	29·833	65	...	...	2	4	11	13	12 8	8 13	23 2	17 1	1·43	...
Málegaon	101·2	30·1	71·1	28·429	60	0·04	...	...	3	...	26	14 6	10 4	...	16 4	1·23	...
Poona	97·2	29·5	67·7	28·054	53	2·11	4	...	6	...	24	11 10	10 13	21 14	17 4	1·61	...
Sholápur	101·1	26·6	74·5	28·296	47	0·19	...	3	7	...	17	16 12	12 12	29 8	21 7	1·27	...
Belgaum	90·3	24·4	65·9	27·361	71	3·59	7	1	7	4	13	15 3	11 9	20 12	20 8	0·21	1·54

May—																			
Surat	96·3	16·9	79·4	29·771	67	0·02	...	1	...	2	23	12 8	8 13	22 2	14 13	1·36	...
Málegaon*	103·2	28·8	74·4	28·424	48	0·82	3	...	1	...	13	14 6	10 4	22 6	16 4	1·11	...
Poona	98·4	27·2	71·2	28·001	58	0·35	1	...	...	1	28	12 13	10 13	20 11	16 2	1·33	...
Sholápur	103·5	26·9	76·6	28·230	70	0·96	1	...	3	...	27	15 13	12 12	29 8	19 11	1·26	...
Belgaum	90·4	22·6	67·8	27·318	69	0·33	2	1	3	...	25	14 11	11 0	19 11	19 8	0·19	·30
June—																			
Surat	91·8	13·6	78·2	29·647	79	16·32	13	...	3	2	24	12 0	8 13	20 13	14 13	1·08	...
Málegaon†	91·5	17·4	74·1	28·226	75	3·09	7	...	4	...	17	13 3	10 4	21 0	15 9	1·16	...
Poona	88·7	16·8	71·9	27·908	72	4·25	5	1	2	...	26	11 10	10 13	20 11	16 2	1·39	...
Sholápur	95·4	21·0	74·4	28 161	60	1·12	4	...	...	...	30	14 14	12 11	25 0	18 12	1·08	...
Belgaum	79·1	11·2	67·9	27·249	88	11·00	22	...	1	...	29	...	...	...	...	0·20	·41
July—																			
Surat	88·4	9·7	78·7	29·685	79	0·87	3	...	1	...	30	9 11	8 13	16 3	11 9	1·17	...
Málegaon	90·2	16·4	73·8	28·299	68	0·60	2	...	...	...	31	11 8	10 4	18 3	14 2	1·20	...
Poona	83·7	13·1	70·6	27·951	75	1·53	5	...	...	...	31	11 10	10 13	17 4	13 13	1·55	...
Sholápur	93·4	19·7	73·7	28·202	60	0·13	1	...	...	...	31	12 5	11 3	18 5	17 0	1·30	...
Belgaum	76·1	9·5	66·6	27·291	92	4·18	17	...	...	...	31	10 2	7 14	12 7	12 11	0·24	·34
August—																			
Surat	90·8	13·2	77·6	29·746	76	0·74	4	...	1	...	30	10 3	8 13	12 0	9 4	1·22	...
Málegaon	93·3	22·0	71·3	28·348	71	0·93	3	...	...	...	31	10 1	10 4	12 10	11 5	1·25	...
Poona	86·4	17·3	69·1	27·987	74	0·95	3	...	...	...	31	9 5	9 10	12 10	10 15	2·01	...
Sholápur	94·0	21·1	72·9	28·233	63	1·84	3	...	...	...	28	11 10	10 12	15 3	12 8	1·53	...
Belgaum	77·7	12·1	65·6	27·309	90	2·21	9	...	...	...	31	10 2	8 15	13 8	12 11	0·26	·24
September—																			
Surat	92·5	16·8	75·7	29·871	71	0·54	3	...	4	2	19	7 6	8 13	8 13	7 14	1·12	...
Málegaon	95·9	25·5	70·4	28·458	66	2·56	2	...	..	...	30	8 10	8 12	9 13	8 8	1·05	...
Poona	88·1	19·6	68·5	28·079	76	3·33	7	...	...	...	30	8 11	9 0	9 12	9 3	1·49	...
Sholápur	92·0	19·9	72·1	28·309	68	8·71	10	...	...	...	30	10 11	10 12	11 3	10 12	1·35	...
Belgaum	80·3	14·6	65·7	27·382	88	6·81	10	...	2	...	28	10 2	8 15	14 0	10 4	0·18	·17

* Observations for 16 days only.

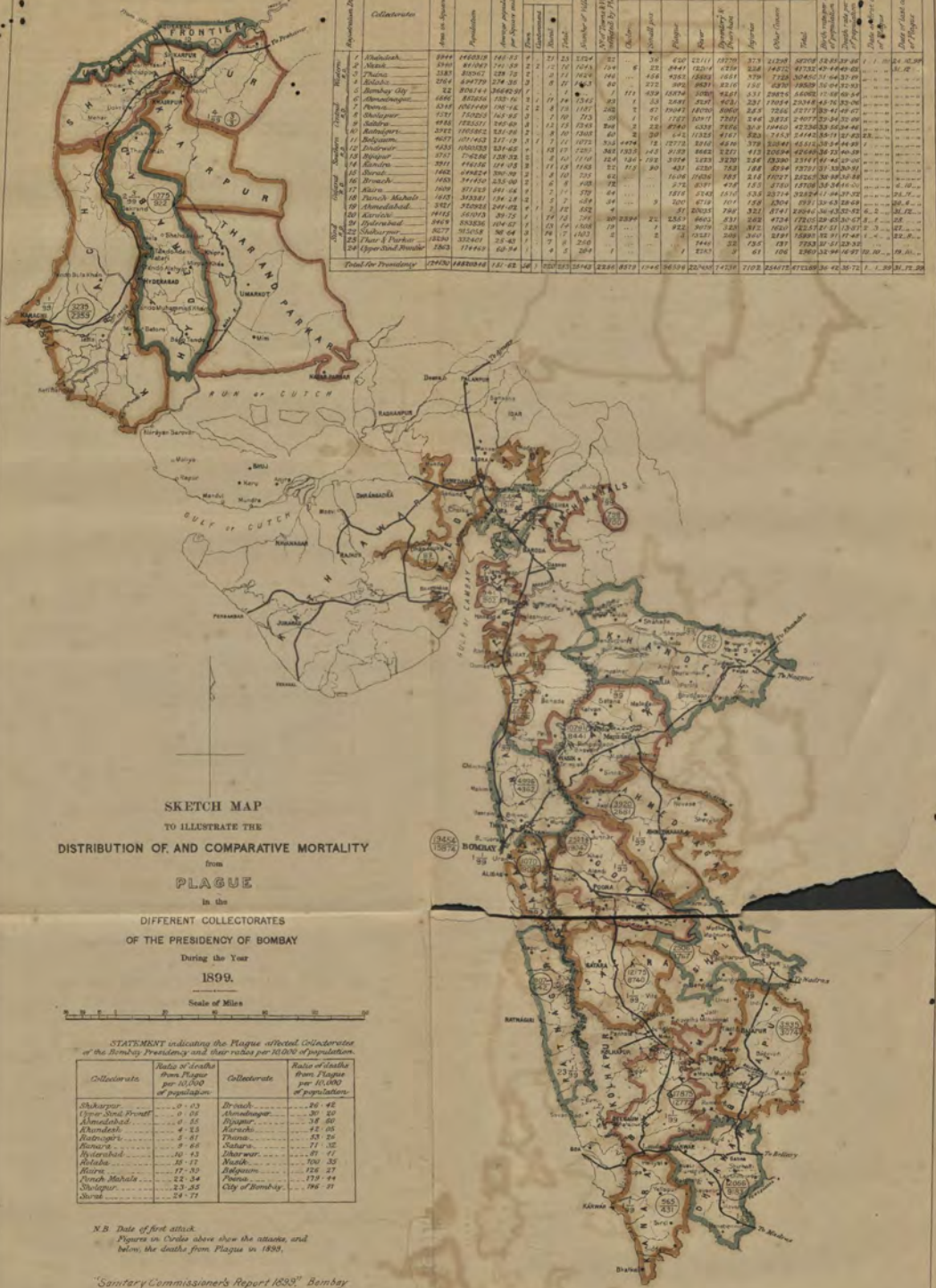
† Observations for 21 days only.

TABLE B—*continued.*

1899.	Temperature of Air.			Of Barometric Pressure Mean at 8 hours.	Humidity Mean at 8 hours.	Rainfall.	Days of Rain.	Wind.				Price per Rupee.				Deaths per 1,000 of Population.	
	Mean Maximum.	Mean Range.	Mean Minimum.			Inches.		N.	N. N. E. to S. S. E.	S.	S. S. W. to N. N. W.	Wheat.	Rice, 2nd sort.	Jowári.	Bájri.	Fever.	Cholera.
				Inches.	Per cent.							S. ch.	S. ch.	S. ch.	S. ch.		
October—																	
Surat	101·2	28·5	72·7	29·896	63	...	...	4	25	...	1	7 6	8 5	8 13	8 5	1·26	...
Málegaon	100·8	32·2	68·6	28·513	37	0·02	...	2	9	1	19	7 3	7 5	8 6	7 1	0·91	...
Poona	97·1	30·3	66·8	28·118	62	0·68	1	...	5	2	19	7 9	7 3	9 3	8 1	1·74	...
Sholápur	97·0	26·8	70·2	28·363	45	...	...	1	19	1	8	9 5	9 4	10 12	9 13	1·44	...
Belgaum	86·9	21·5	65·4	27·401	77	2·24	7	...	11	...	14	9 2	8 15	12 7	9 4	0·36	·24
November—																	
Surat	97·6	32·7	64·9	29·994	54	...	...	2	24	3	...	7 2	9 4	9 1	8 1	1·36	...
Málegaon	95·3	36·5	58·8	28·603	36	...	...	...	...	...	30	8 10	8 1	...	8 8	1·15	...
Poona	92·4	34·3	58·1	28·196	56	...	...	...	3	1	22	7 0	7 3	9 3	8 10	0·88	...
Sholápur	93·0	30·3	62·7	28·448	30	...	...	2	23	...	3	9 5	9 4	9 13	9 6	0·93	...
Belgaum	86·0	26·6	59·4	27·472	56	...	...	...	17	...	3	8 2	7 14	10 6	9 12	0·27	·03
December—																	
Surat	93·9	32·5	61·4	30·024	47	...	...	1	26	...	...	7 10	10 3	9 11	8 13	1·73	...
Málegaon	90·0	36·5	53·5	28·641	37	0·01	...	...	1	1	29	8 10	8 7	10 8	8 8	1·23	...
Poona	88·3	35·2	53·1	28·224	42	...	...	1	4	...	23	7 9	7 13	9 12	8 10	0·85	...
Sholápur	89·0	30·5	58·5	28·480	29	...	...	...	25	...	...	...	...	...	...	1·45	...
Belgaum	83·6	25·2	58·4	27·493	43	...	...	...	28	...	...	8 2	7 14	11 7	9 12	0·28	...

STATEMENT SHEWING VITAL STATISTICS &c. IN EACH COLLECTORATE DURING 1899

Administrative Districts	Collectorates	Area in Square miles	Population	Average population per Square mile	Circles of Registration: Towns	Villages	Number of Villages	No. of Towns & Villages Subject to Plague	Number of deaths recorded during the year from: Cholera	Small pox	Plague	Fever	Dysentery & Diarrhoea	Injuries	Other Causes	Total	Birth number (XXX) of population	Death number (XXX) of population	Date of first case of Plague	Date of last case of Plague
Sind	1 Khairpur	3944	1460518	148·53	4	23	2334	22	...	...	56	22111	13270	373	21298	57108	52·85	39·46	1 1	24 10 99
	2 Nasik	5340	811067	151·89	2	12	1043	104	...	23	8441	12014	4739	238	14972	40737	43·44	49·03	...	31 12
	3 Thana	3181	830967	261·32	2	11	1629	142	...	456	9262	15682	1661	579	7128	34768	51·64	37·49	...	...
	4 Kolaba	2764	694779	274·36	3	8	1571	60	...	272	3992	9631	2216	136	6230	18629	51·04	32·53	...	...
	5 Bombay City	12	806746	26842·91	1	1	1	1	111	459	15874	30801	9261	531	29875	56802	37·18	69·54	...	...
	6 Ahmednagar	6666	830856	152·16	3	13	1945	93	1	53	2681	7537	903	231	17054	28459	43·76	33·06	...	...
	7 Poona	5348	1061449	196·16	2	8	1357	262	2	67	29041	18700	8060	243	7266	57177	38·41	49·67	...	...
	8 Sholapur	4331	756253	163·83	3	7	701	59	1	76	1727	10917	7701	246	3823	24470	32·94	32·09	...	...
	9 Satara	4918	1232321	250·60	3	12	1243	849	2	128	8760	4339	7686	319	19460	42332	35·56	34·46	...	...
	10 Ratnagiri	3961	1105862	279·26	2	8	1368	60	2	209	6421	11325	4167	823	7430	34442	38·19	31·23	23 12	...
	11 Belgaum	4677	1071463	229·19	3	7	1072	336	4974	12	12773	3910	4696	378	33981	65511	39·54	44·89	1 ...	...
	12 Dharwar	4534	1020533	224·62	1	13	1026	361	1935	143	9183	9662	3271	413	20694	42686	36·73	40·39	...	...
	13 Bijapur	6761	714286	105·62	5	6	1110	124	172	3994	1283	3270	1541	96	13390	23974	40·44	33·60	...	...
	14 Kanara	3941	496156	125·93	2	11	1183	32	113	90	421	6230	763	188	8994	16791	37·53	30·91	...	...
	15 Surat	1662	474824	285·76	2	3	701	63	...	...	1604	11026	583	216	10027	23456	38·98	30·58	...	...
	16 Broach	1653	344450	255·00	1	6	905	72	...	...	3731	8591	1141	418	7855	21736	38·34	44·10	...	...
	17 Kaira	1602	871553	541·66	1	2	1	579	64	...	...	1818	5743	1516	635	23714	32824	41·94	37·32	...	...
	18 Panch Mahals	1610	343831	194·23	1	2	1	529	34	...	9	520	6716	1011	158	8304	8991	35·43	28·69	...	...
	19 Ahmedabad	3421	350925	241·62	1	2	12	552	4	...	...	51	20035	796	321	8741	29984	36·43	35·42	6 6	...
	20 Kaira(N)	1415	561013	396·75	1	14	12	791	20	2394	21	2551	9603	831	262	4734	17202	29·65	30·67	8 1	...
	21 Sabarkantha	3469	553836	159·69	1	13	12	1008	19	...	1	922	9079	523	372	1620	12517	21·51	13·97	2 3	...
	22 Thar & Parkar	8277	515058	62·64	3	26	17	1603	5	...	2	...	13581	366	341	2781	16991	19·91	17·46	1 ...	...
	23 Thar & Parkar	13230	332401	25·43	1	7	8	268	...	...	...	...	9446	22	736	137	7753	17·17	23·30	...	...
	24 Upper Sind Frontier	5863	174291	29·74	1	1	1	284	...	...	...	1	2243	3	61	106	2360	32·94	16·97	10 10	...
	Total for Presidency	124120	18822848	151·68	58	1	4207	525	38748	2286	8573	1948	96596	22·465	74436	7102	254475	471269	36·42	36·72	1 1	29 31 12



STATEMENT indicating the Plague affected Collectorates of the Bombay Presidency and their ratios per 10,000 of population.

Collectorate.	Ratio of deaths from Plague per 10,000 of population.	Collectorate	Ratio of deaths from Plague per 10,000 of population.
Shikarpur	0 - 03	Broach	26 - 42
Upper Sind Frontier	0 - 04	Ahmednagar	30 - 00
Ahmedabad	0 - 55	Bijapur	38 - 60
Khandesh	4 - 25	Karachi	42 - 05
Ratnagiri	5 - 81	Thana	53 - 24
Hanara	9 - 66	Satara	71 - 32
Hyderabad	10 - 43	Dharwar	81 - 11
Kolaba	15 - 17	Nasik	100 - 35
Kaira	17 - 30	Belgaum	126 - 27
Panch Mahals	22 - 34	Poona	179 - 44
Sholapur	23 - 25	City of Bombay	196 - 11
Surat	24 - 71		

N.B. Date of first attack.
Figures in Circles above show the attacks, and below, the deaths from Plague in 1899.

"Sanitary Commissioner's Report 1899." Bombay

Govt. Photozinco. Office, Poona, 1900.

Plague.

81. A map showing the districts and the date of the first case reported is appended, and also a list showing the attacks and deaths from the disease for the year 1899. The figures shown are from returns received in this office and do not tally with returns elsewhere published.

82. The following table shows the deaths from plague arranged by districts and collectorates :—

Districts.	No.	Collectorates.	Population according to Census of 1891.	Deaths from Plague.						
				1896.	1897.	Ratio per 1,000 of population.	1898.	Ratio per 1,000 of population.	1899.	Ratio per 1,000 of population.
Western Registration District.	1	Khándesh	1,460,319	5	76	0·05	230	0·05	620	0·42
	2	Násik	841,087	...	1,075	1·28	1,951	2·32	8,441	10·03
	3	Thána	818,967	95	4,156	5·07	3,235	3·97	4,362	5·33
	4	Bombay	806,144	1,803	10,237	12·70	18,130	22·49	15,874	19·69
	5	Kolába	594,770	13	1,309	2·20	654	1·10	902	1·52
Central Registration District.	6	Ahmednager ...	887,656	4	386	0·43	333	0·38	2,681	3·02
	7	Poona	1,061,449	39	8,871	8·36	1,355	1·28	19,047	17·94
	8	Sholápur	750,255	1	2,353	3·14	1,557	2·08	1,767	2·36
	9	Sátára	1,225,511	...	10,031	8·18	6,918	5·64	8,740	7·13
	10	Ratnágiri	1,105,862	...	26	0·02	374	0·33	642	0·58
Southern Registration District.	11	Belgaum	1,011,453	...	444	0·44	16,301	16·12	12,772	12·63
	12	Dhárwár	1,050,533	...	38	0·04	27,764	26·43	9,183	8·74
	13	Bijápur	796,286	...	3	...	979	1·23	3,074	3·86
	14	Kánara	446,156	...	...	...	59	0·13	431	0·97
Gujarát Registration District.	15	Surat	649,824	21	3,070	4·72	2,552	3·92	1,606	2·47
	16	Broach	341,450	5	9	0·03	424	1·24	902	2·64
	17	Kaira	871,529	10	3	...	415	0·51	1,516	1·74
	18	Panch Mahals ...	313,381	...	...	...	201	0·64	700	2·23
	19	Ahmedabad... ...	920,928	29	65	0·08	6	...	51	0·05
Sind Registration District.	20	Karáchi	561,013	59	3,572	6·37	2,722	4·85	2,359	4·20
	21	Hyderabad... ...	883,836	1	499	0·57	1	...	922	1·04
	22	Thar and Parkar ...	332,401	...	2	...	...	...	...	...
	23	Shikárpur	915,058	1	716	0·78	...	...	3	...
	24	Upper Sind Frontier.	174,469	...	3	0·02	...	...	1	...

Abstract.

Western Registration District			4,521,296	1,916	16,853	3·73	24,200	5·35	30,199	6·68
Central	do.	... ...	5,030,733	44	21,667	4·31	10,537	2·09	32,877	6·53
Southern	do.	... ...	3,304,428	...	485	0·15	45,103	13·65	25,460	7·70
Gujarát	do.	... ...	3,097,112	65	3,147	1·02	3,628	1·17	4,775	1·54
Sind	do.	... ...	2,866,777	61	4,792	1·67	2,723	0·95	3,285	1·15
		Total ...	18,820,346	2,086	46,944	2·49	86,191	4·58	96,596	5·13

At the end of 1896 there had been a total of 2,909 attacks and 2,086 deaths from plague, 61,093 attacks and 46,944 deaths were recorded during 1897, 110,369 attacks and 86,191 deaths were recorded during 1898, and 126,287 attacks and 96,596 deaths in 1899: the table below gives the progress of the disease by months in each collectorate for the year under report.

The epidemic continued throughout the year and was at its lowest intensity in June and reached its maximum in September. Only one district, Thar and Párkar, remained uninfected throughout the year.

No.	District.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.		JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.		TOTAL.		Number of Towns and Villages is affected by Plague.
		Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	Attacks.	Deaths.	
1	Khándesh	198	162	184	142	199	154	35	29	1	1	2	2	...	...	110	79	46	47	5	5	...	...	...	...	782	620	22
2	Násik	155	128	324	209	338	231	151	127	74	61	165	130	991	708	2,646	1,911	3,875	2,976	1,980	1,608	176	155	27	27	10,791	8,441	154
3	Thána	586	490	803	677	1,063	970	596	603	288	279	149	114	361	281	498	383	226	226	183	175	103	103	152	152	4,340	4,362	146
4	City of Bombay... ...	1,879	1,601	3,476	3,118	5,723	4,758	3,007	2,315	1,204	1,008	254	228	311	281	443	343	438	303	619	449	642	436	1,465	994	19,454	15,874	1
5	Kolába	164	135	186	154	198	166	246	200	140	146	9	6	5	5	26	19	1	1	9	5	25	22	63	43	1,070	902	80
6	Ahmednagar	68	23	38	23	25	20	9	6	11	3	16	5	73	20	498	373	1,746	1,173	1,119	839	256	146	76	61	3,920	2,631	93
7	Poona	120	80	178	115	488	389	304	314	335	276	479	377	3,546	2,722	7,422	5,947	6,996	4,839	4,106	2,873	882	882	233	233	25,230	19,047	202
8	Sholápur...	116	57	51	27	55	42	13	12	27	20	3	3	11	8	148	63	220	80	427	239	567	476	871	695	2,607	1,767	60
9	Sátára	893	622	505	402	468	302	227	130	190	126	204	196	673	636	1,312	929	2,928	2,085	3,377	2,358	808	688	231	207	12,176	8,740	208
10	Ratnagíri	7	3	24	22	70	49	112	75	65	41	25	20	47	41	62	45	95	63	99	70	98	81	183	132	907	642	60
11	Belgaum	910	675	761	553	450	308	169	114	316	221	647	501	2,249	1,843	8,156	6,397	8,318	2,353	3,699	2,376	1,773	1,174	627	357	17,876	12,772	335
12	Dhárwár	2,259	1,860	883	693	258	221	125	26	129	79	129	72	308	222	801	676	1,781	1,376	2,743	1,917	1,760	1,364	901	708	12,066	9,183	332
13	Bijápur	372	264	283	169	139	89	47	36	20	6	43	12	166	117	471	227	638	526	916	762	692	538	252	250	8,935	3,074	124
14	Kánara	48	27	53	52	43	33	3	3	1	1	80	46	142	110	17	14	75	63	60	54	18	11	25	12	565	431	22
15	Surat	60	37	161	90	126	81	67	42	84	70	102	72	221	160	832	258	418	303	376	311	172	120	108	62	2,217	1,606	62
16	Broach	183	161	219	202	186	186	67	67	32	32	...	...	77	77	90	90	66	66	15	15	...	...	...	...	941	902	12
17	Kaira	306	308	273	273	296	296	172	172	72	72	2	2	97	85	204	184	107	107	60	37	6	2	...	...	1,045	1,818	64
18	Panch Mahals	279	278	342	342	77	73	...	...	6	0	1	1	...	...	...	...	...	...	...	...	...	...	...	...	807	700	34
19	Ahmedabad	...	...	3	3	10	6	4	1	...	...	...	...	...	...	1	1	11	8	22	11	27	20	5	1	83	61	4
20	Karáchi	22	17	77	54	808	539	1,522	1,112	611	460	43	39	14	12	11	6	29	23	32	27	37	17	30	32	3,235	2,359	20
21	Hyderabad	...	...	...	...	6	3	27	18	33	29	...	...	...	...	164	133	346	258	390	354	96	87	14	13	1,075	922	19
22	Thar and Párkar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Shikárpur	...	...	...	...	...	...	2	2	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	3	3	2
24	Jacobabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	1	1	1
	Total for the Presidency.	6,933	5,307	7,429	6,684	9,964	8,934	6,303	5,643	2,955	2,403	1,836	1,492	7,343	5,855	13,992	10,829	16,974	13,420	20,188	14,626	8,108	6,322	6,154	4,029	120,287	96,696	2,256

83. *Khándesh.*—Plague prevailed to a limited extent up to March, after which it fell rapidly until June, and the district was free during the month of July. In August, however, it was again re-infected and continued so up to October, when 5 deaths were recorded that month, when it ceased. Twenty-two towns and villages were affected and there were 782 attacks and 620 deaths reported.

84. *Násik*—Was affected during the whole year. From January to June it was to a limited extent, but it suddenly rose from 130 deaths in June to 768 deaths in July, and continued increasing until the maximum was reached in September, when 2,976 deaths were recorded; it declined just as rapidly and the minimum was recorded in December, *viz.*, 27 deaths. 154 towns and villages were affected, and there were 10,791 attacks and 8,441 deaths reported.

85. *Thána*—Was affected during the whole year as in 1898. In January the disease was on the increase and this continued until March, when the maximum number of deaths, 970, took place, and then gradually declined until December, when 152 deaths were recorded. The total for the year was 146 towns and villages, 4,996 attacks and 4,362 deaths.

86. *Bombay City.*—As in 1898 the disease was prevailing throughout the year. The maximum deaths, 4,758, were reached in March, when it rapidly fell until June, giving 228 deaths the minimum, and then again there was a gradual rise and continued so until the close of the year, when 994 deaths were recorded. The total for the year was 19,454 attacks and 15,874 deaths.

87. *Kolába.*—Plague prevailed to a very limited extent throughout the year, it gradually declined from January until September, when only 1 death was recorded; at the last month of the year there were 43 deaths. 80 villages were affected and there were 1,070 attacks and 902 deaths reported.

88. *Ahmednagar.*—In the collectorate, plague occurred in all the tálukas except Karjat; the highest mortality, 1,173, occurred in September. Amongst the Registration Circles the highest number of deaths, 1,576, was recorded in the town of Ahmednagar. In the whole collectorate 93 towns and villages were affected and there were 3,920 attacks and 2,681 deaths reported, the majority of which occurred in the Chief City and in the neighbouring villages in the Nagar Táluka.

89. *Poona.*—In the Poona Collectorate, plague occurred in all the tálukas. The maximum mortality, 5,947, took place in August. The greatest number of deaths from plague, 10,229, was recorded in the town of Poona. The Haveli Táluka in which the city of Poona is situated returned 5,037 more deaths from the disease. In the city, cases occurred in every month of the year. In the whole collectorate 262 towns and villages were affected and there were 25,239 attacks and 19,047 deaths reported.

90. *Sholápur.*—In the collectorate, plague prevailed in all the tálukas except the tálukas of Sángola and Málsiras. 818 deaths were recorded in the town of Sholápur during the latter 5 months of the year. It was present in the Sholápur Táluka during every month of the year except July, and 771 deaths occurred during the year. Pandharpur Town reported one imported death, but no local case. The total for the year was 59 towns and villages, 2,506 attacks and 1,767 deaths reported.

91. *Sátára.*—The collectorate was affected throughout the year and in all Registration Circles, except Malcolmpeth. The highest mortality, 2,358, took place in October. Amongst the circles, Karád Rural Circle returned 2,405 deaths. The town of Karád recorded 908 deaths. In the whole collectorate 298 towns and villages were affected, and there were 12,175 attacks and 8,740 deaths.

92. *Ratnágiri*—Was affected during the whole year and in all the tálukas except Khed. The highest mortality, 132, was in December. There were 60 towns and villages affected, and 907 attacks and 642 deaths occurred.

93. *Belgaum.*—As in 1898 the disease was prevalent during the entire year. In 1899 it had reached its minimum in April, but from that month it showed an increase till in August the maximum was reached, and for the next two months the mortality was nearly the same, after which a decline set in. The total for the year was 335 towns and villages, 17,875 attacks and 12,772 deaths.

94. *Dhárwár*—Was affected during the whole year. The year opened with 1,869 deaths in January, and the disease gradually declined till April, when

the minimum 96 deaths were recorded; it again increased rapidly when the maximum 1,917 deaths were reached in October, 382 towns and villages were affected, and there were 12,066 attacks and 9,183 deaths reported.

95. *Bijápur.*—The collectorate was affected throughout the year. The disease, which had commenced in September 1898, was on the increase in December, but in January 1899 there was a sudden fall, which continued until May, when there were only 5 deaths. The mortality then rose to 12 in June. In July it assumed a greater intensity, and in October it reached the maximum 752, and fell in November to 535, and in December to 250. In all there were 124 towns and villages affected, and 3,935 attacks and 3,074 deaths.

96. *Kánara.*—In July the epidemic reached its maximum. There were 22 towns and villages affected and there were 565 attacks and 431 deaths.

97. *Surat.*—In this collectorate the plague was present in every month of the year and in all the tálukas except Mándvi, Bárdoli and Chikhli. Bárdoli and Chikhli returned only 1 and 3 deaths respectively; the highest mortality, 311, occurred in October. Amongst the Registration Circles the highest number of deaths, 625, was recorded in the town of Surat. In all there were 62 towns and villages affected and 2,217 attacks and 1,606 deaths.

98. *Broach.*—In the collectorate the largest number of deaths was recorded in the first quarter of the year and then the epidemic declined. In the last two months of the year the district was free. Broach Town Circle suffered most heavily. Twelve villages and towns were affected, and there were 941 attacks and 902 deaths reported.

99. *Kaira.*—Plague prevailed chiefly in the first quarter of the year and then, with a slight recrudescence in August and September, decreased till in December no cases were reported. Sixty-four towns and villages were affected and there were 1,645 attacks and 1,516 deaths reported.

100. *Panch Mahál.*—The chief mortality occurred in the first two months of the year, the epidemic declining till it ceased in July. Amongst the Registration Circles the highest number of deaths, 456, was recorded in the town of Godhra. In all there were 34 towns and villages affected and 805 attacks and 700 deaths reported.

101. *Ahmedabad.*—In this collectorate, Dhandhuka Registration Circle returned 39 deaths while 12 deaths were reported from Ahmedabad Town Circle.

102. *Karáchi.*—The plague was at its highest intensity in March, April and May, after which it was kept within narrow limits. Karáchi Town Circle suffered the most during the year. In the whole collectorate 20 towns and villages were affected and there were 3,235 attacks and 2,359 deaths reported.

103. *Hyderabad.*—The district was not badly affected till the latter half of the year, but in December a decline set in. Altogether 19 villages were affected and 1,075 attacks and 922 deaths reported.

104. *Shikárpur.*—In this district 3 imported cases and 3 deaths were reported during the year.

104A. *Jacobabad.*—In this collectorate the only case and death reported was an imported one.

104B. In the whole Presidency there were 126,287 attacks and 96,596 deaths from plague and 2,256 towns and villages were affected as compared with 110,360 attacks and 86,191 deaths and 1,188 affected towns and villages in 1898.

104C. The parts most affected were the collectorates of Poona, City of Bombay, and Belgaum, and the rates of plague deaths per mille in them were 17·9, 19·6 and 12·6, respectively. Násik came next with a rate of 10·03 and then Dhárwár, Sátára, Thána, Karáchi, Bijápur and Ahmednagar with rates which ranged from 8·7, 7·1, 5·3, 4·2, 3·8 and 3·02 per mille; Broach, Surat, Sholápur, Panch Mahás had rates 2·6, 2·4, 2 3, 2·2, respectively; the rates of the remaining affected collectorates were much lower. The rate per mille for the various Registration Districts were as follows:—

Western 6·68, Central 6·53, Southern 7·70, Gujarát 1·54 and Sind 1·15.

In January there were 6,933 deaths, and during February and March it rose to 8,964. In April the deaths fell and continued to fall until the minimum (1,826) was reached in June, they rose again in July and in August, and a more distinct rise took place in September, when the maximum (16,974) was recorded, after which a fall took place in October, and continued falling until December.

Dysentery and Diarrhœa.

Deaths from dysentery and diarrhœa.

105. Dysentery and diarrhœa caused the deaths of 40,348 males and 34,388 females, or a total of 74,736 persons against 56,789 in 1898 and a decennial mean of 43,918—an increase of 17,947 against the last year and of 30,818 over the decennial mean.

Deaths since 1888.

106. The number of deaths ascribed to dysentery and diarrhœa in each year since 1888 is as follows :—

Year.	Number of deaths from dysentery and diarrhœa.	Year.	Number of deaths from dysentery and diarrhœa.
1888	45,462	1894	31,667
1889	48,202	1895	35,348
1890	36,037	1896	36,046
1891	37,728	1897	85,966
1892	35,406	1898	56,789
1893	32 965	1899	74,736
Total ...	235,800	Total ...	323,552
Mean ...	39,300	Mean ...	53,925

The deaths ascribed to "dysentery and diarrhœa" during the nine years preceding 1897 showed only very slight variations, but in and since 1897 the deaths due to these diseases showed a considerable increase and amounted to nearly double that of any of the nine years already mentioned. The increase has been continued during the present year though smaller than the year 1897, yet the total is still considerably over any of the nine years previous to 1897.

Deaths by districts and collectorates.

107. The following table shows the deaths from dysentery and diarrhœa arranged by districts and collectorates :—

District.	No.	Collectorates.	Population according to Census of 1891.	Deaths from Dysentery and Diarrhœa.					
				Mean for ten years from 1889 to 1898.	Ratio per 1,000 of Population.	1898.	Ratio per 1,000 of Population.	1899.	Ratio per 1,000 of Population.
Western Registration District.	1	Khándesh	1,460,319	5,930	4·19	8,594	5·90	13,770	9·43
	2	Násik	841,047	4,005	4·83	5,321	6·33	6,259	7·44
	3	Thána	818,967	1,150	1·41	1,362	1·66	1,651	2·01
	4	Bombay	806,144	2,128	2·66	3,520	4·36	4,261	5·28
	5	Kolába	594,779	1,423	2·49	1,740	2·93	2,216	3·72
Central Registration District.	6	Ahmednagar	887,636	3,040	3·53	4,179	4·71	4,031	4·54
	7	Poona	1,061,449	3,092	3·00	4,104	3·87	8,060	7·59
	8	Sholápur	750,255	2,899	4 05	4,905	6·54	7,201	9·60
	9	Sátára	1,225,511	3,838	3·22	6,327	5·16	7,286	5 95
	10	Ratnágiri	1,105,862	2,584	2·38	3,641	3·29	4,167	3·77
Southern Registration District.	11	Belgaum	1,011,453	5,156	5·25	5,161	5·10	4,516	4·46
	12	Dhárwár	1,050.533	3,295	3 24	2,781	2·65	2,217	2·11
	13	Bijápur	796.286	2,634	3·44	1,908	2·40	3,270	4·11
	14	Kánara	446,156	726	1·65	680	1·52	753	1·69
Gujarát Registration District.	15	Surat	649,824	504	0·78	631	0·97	785	1·21
	16	Broach	341,450	118	0·35	205	0·60	478	1·40
	17	Kaira	871,579	308	0·36	147	0·16	1,516	1·74
	18	Panch Mahals	313,381	26	0·09	26	0·08	101	0·32
	19	Ahmedabad	920,928	497	0·55	391	0·43	798	0·87
Sind Registration District.	20	Karáchi...	561,013	274	0·50	430	0·77	831	1·48
	21	Hydorabad	883,836	130	0·15	429	0·49	323	0 37
	22	Thar and Párkar ...	332,401	25	0·08	24	0·07	32	0·10
	23	Shikárpur	915,055	122	0·14	276	0·30	205	0·22
	24	Upper Sind Frontier ...	174,469	14	0·09	7	0·04	9	0·05

Abstract.

Western Registration District	4,521,296	14,636	3·30	20,537	4·54	28,157	6·23
Central do.	5,030,733	15,463	3·16	23,156	4·60	30,745	6·11
Southern do.	3,304,428	11,811	3·69	10,530	3·19	10,756	3·26
Gujarát do.	3,097,112	1,463	0·48	1,400	0·45	3,678	1·19
Sind do.	2,866,777	565	0·20	1,166	0·41	1,400	0·49
Total ...	18,820,346	43,918	2·39	56,789	3·02	74,736	3·97

The rate (3·97) was higher than in the year 1898 (3·02). The increase, as in the last two years, is chiefly in the Western and Central Registration Districts, and is most noticeable in the parts affected by famine. The collectorate of Sholápur heads the list with a high ratio of 9·60, Khándesh follows with a ratio of 9·43, Poona with 7·59, Násik with 7·44 and Sátára with 5·95 and the City of Bombay with 5·28. In the Southern Registration District in the Bijápur Collectorate the ratio during the year is higher than the last year and the ten years' mean.

In the Gujarát District also there is an increase in every collectorate in the number of deaths ascribed to "dysentery and diarrhœa," but the figures are not high, considering that the district is famine-stricken.

108. The table in the margin shows the monthly distribution of deaths ascribed to these causes as compared with the mean and with the corresponding months of 1898. During every month of the year the number of deaths show an increase over those of the last year and the decennial mean. From January to June, excepting February (4,556), the numbers of deaths are fairly steady, between 5 and 6 thousands. Then a rise takes place in July and August, after which there is again a fall with an increase in December. The highest number of deaths (7,781) took place in August and the lowest (4,556) in February.

Deaths by months.

Months.	Mean for ten years from 1889 to 1898.	1898.	1899.
January ...	2,965	5,179	5,729
February ...	2,785	3,920	4,556
March ...	2,432	4,133	5,473
April ...	2,856	4,165	5,200
May ...	2,946	3,628	5,510
June ...	3,193	3,430	5,699
July ...	4,103	4,419	7,602
August ...	5,109	6,271	7,781
September ...	5,292	5,784	7,105
October ...	4,540	5,733	6,736
November ...	3,757	4,831	6,102
December ...	3,945	5,296	7,243
Total ...	43,914	56,789	74,736

INJURIES.

Deaths from injuries.

109. During 1899, 4,108 males and 2,994 females, or a total of 7,102 persons, met with violent deaths. The mortality from these causes is more by 118 than that reported in 1898.

110. The number of deaths registered from injuries in each year since 1888 is as follows :—

Year.	Number of deaths from injuries.	Year.	Number of deaths from injuries.
1888	5,731	1894	6,117
1889	5,941	1895	6,051
1890	5,883	1896	6,238
1891	5,887	1897	6,907
1892	5,432	1898	6,984
1893	6,144	1899	7,102
Total ...	35,018	Total ...	39,399
Mean ...	5,836	Mean ...	6,566

111. The deaths from these causes for the last two years, arranged by sexes, are shown in the following table :—

	1898.			1899.		
	Males.	Females.	Total.	Males.	Females.	Total.
Drowning	1,365	1,639	3,004	1,279	1,493	2,772
Poisoning	76	39	115	67	42	109
Hanging	126	97	223	106	51	157
Wounding	475	185	660	609	219	828
Wild beasts	54	25	79	72	18	90
Snake-bite	929	522	1,451	897	547	1,444
Other causes	948	504	1,452	1,078	624	1,702
Total ...	3,973	3,011	6,984	4,108	2,994	7,102

From the above table it will be seen that during 1899 under wounding, wild beasts and other causes there is an increase under each head; but under drowning, poisoning, hanging and snake-bite there is a decrease as compared with 1898.

Deaths by districts and collectorates.

112. The next table gives the deaths from injuries for each registration district and collectorate for 1898 and 1899 and the mean for previous ten years. The number of deaths during the year in 11 collectorates was greater and in 13 less than the previous year. The highest number of deaths (535), which is nearly the same as that for the City of Bombay (531) and the collectorate of Ratnágiri (523), was recorded in the collectorate of Kaira and the lowest (61) in the District of Upper Sind Frontier:—

Districts.	No.	Collectorates.	Population according to Census of 1891.	Deaths from Injuries.					
				Mean for ten years from 1889 to 1898.	Ratio per 1,000 of Population.	1898.	Ratio per 1,000 of Population.	1899.	Ratio per 1,000 of Population.
Western Registration District.	1	Khándesh	1,460,319	334	0·23	400	0·27	373	0·26
	2	Násik	841,087	186	0·26	234	0·28	228	0·27
	3	Thána	818,967	410	0·51	414	0·51	379	0·46
	4	Bombay	806,144	424	0·38	540	0·67	531	0·66
	5	Kolába	594,779	219	0·38	238	0·40	198	0·33
Central Registration District.	6	Ahmednagar	887,656	157	0·18	217	0·25	231	0·26
	7	Poona	1,061,449	276	0·27	243	0·22	255	0·24
	8	Sholápur	750,255	182	0·25	288	0·38	246	0·33
	9	Sátára	1,225,511	314	0·26	450	0·37	388	0·32
	10	Ratnágiri	1,105,862	319	0·29	502	0·45	523	0·47
Southern Registration District.	11	Belgaum	1,011,453	330	0·36	373	0·37	379	0·37
	12	Dhárwár	1,050,533	305	0·30	337	0·32	413	0·39
	13	Bijápur	796,286	226	0·30	251	0·32	256	0·32
	14	Kánara	446,156	173	0·39	184	0·41	188	0·42
Gujarát Registration District.	15	Surat	649,824	246	0·38	295	0·45	215	0·33
	16	Broach	341,450	135	0·40	142	0·42	155	0·45
	17	Kaira	871,529	361	0·42	301	0·35	535	0·62
	18	Panch Mahális	313,381	109	0·36	104	0·33	158	0·51
	19	Ahmedabad	920,928	286	0·32	272	0·29	321	0·35
Sind Registration District.	20	Karáchi	561,013	275	0·50	269	0·48	262	0·47
	21	Hyderabad	883,836	339	0·39	346	0·39	312	0·35
	22	Thar and Párkar ...	332,401	103	0·33	144	0·44	135	0·40
	23	Shikárpur	915,058	392	0·43	366	0·40	360	0·39
	24	Upper Sind Frontier ...	174,469	54	0·32	74	0·42	61	0·35
Abstract.									
Western Registration District			4,521,296	1,573	0·35	1,826	0·40	1,709	0·38
Central do.			5,030,733	1,248	0·26	1,700	0·34	1,643	0·33
Southern do.			3,304,428	1,034	0·32	1,145	0·35	1,236	0·37
Gujarát do.			3,097,112	1,137	0·37	1,114	0·36	1,384	0·45
Sind do.			2,866,777	1,163	0·42	1,199	0·42	1,130	0·39
		Total ...	18,820,346	6,155	0·34	6,984	0·37	7,102	0·38

113. The monthly distribution of deaths from snake-bite is given in the next table for each year from 1894 to 1899 inclusive. The deaths in 1899 were, as usual, most numerous during the rainy season :—

Months.	Years.						
	1894.	1895.	1896.	1897.	1898.	Mean for five years.	1899.
January	46	44	28	26	42	186	59
February	54	31	33	26	39	183	41
March	38	40	41	35	57	211	60
April	67	66	50	37	84	304	70
May	80	113	109	85	116	503	135
June	182	192	180	138	166	858	194
July	196	180	192	188	215	971	204
August	186	221	154	194	199	954	209
September	179	194	171	198	194	936	215
October	173	138	181	166	196	854	160
November	92	123	104	84	88	491	66
December	71	38	43	44	55	251	31
Total ...	1,364	1,380	1,286	1,221	1,451	6,702	1,444

Snake-bites by districts.

114. The next table shows the deaths by localities. The highest number (250) was recorded in Ratnagiri, Thána and Hyderabad following with 141 and 136 and Shikárpur with 93. The total number was 104 over the five years, mean and less by 7 than that for 1898. The increase is most marked in Kaira, Ahmednagar, Khándesh and Dhárwár, but the increase over the mean is most marked in Ratnágiri for the past two years and in Dhárwár.

Months.	Years.						
	1894.	1895.	1896.	1897.	1898.	Mean for five years.	1899.
Khándesh	58	54	39	50	39	48	54
Násik	14	31	40	14	33	26	40
Thána	129	148	161	123	139	140	141
Bombay	9	3	6	2	4	5	4
Kolába	30	43	52	49	57	46	54
Ahmednagar	14	20	31	23	22	22	38
Poona	26	50	24	34	27	32	38
Sholápur	25	18	18	23	29	23	27
Sátára	33	51	47	44	58	47	72
Ratnágiri	182	149	191	141	249	182	250
Belgaum	34	30	35	35	52	37	26
Dhárwár	21	25	20	17	32	23	47
Bijápur	23	31	23	25	23	25	26
Kánara	25	9	23	18	10	17	16
Surat	47	33	34	50	49	43	43
Broach	30	28	29	33	24	29	27
Kaira	78	98	60	68	47	70	82
Panch Máhals	38	39	24	40	32	35	29
Ahmedabad	87	97	71	70	75	80	53
Karáchi	86	96	74	78	73	81	71
Hyderabad	140	132	116	123	155	133	136
Thar and Párkar	106	81	52	57	85	76	57
Shikárpur	115	102	109	90	111	105	93
Upper Sind Frontier	14	12	7	14	26	15	20
Total ...	1,364	1,380	1,286	1,221	1,451	1,340	1,444

115. In the following table the deaths from injuries are detailed under the specified headings, and it will be seen that of the 2,772 deaths by drowning, 400 were suicidal, 2,221 accidental and 151 are entered as "otherwise." The latter heading means that when the return was submitted, no decision had been come to as to whether these deaths were "suicidal" or "accidental." Of the 633 suicidal deaths 400 were the result of drowning, 51 from taking poison, 145 from hanging and 37 from self-inflicted wounds.

Details of injuries.

Detail of Deaths by Violence in the Bombay Presidency for the year 1899.

| 1 | 2 | | |

Other Causes.

Other Causes.

116. The recorded deaths from causes other than those specified number 254,872, of which 130,684 occurred among males and 124,179 among females. The total for 1898 was 176,335, so there is an increase of 78,537 under this head.

Districts.	No.	Collectorate.	Population according to Census of 1891.	Deaths from other Causes.					
				Mean for ten years from 1889 to 1898.	Ratio per 1,000 of Population.	1898.	Ratio per 1,000 of Population.	1899.	Ratio per 1,000 of Population.
Western Registration District.	1	Khándesh	1,460,319	4,413	3·12	14,645	10·02	21,298	14·58
	2	Násik	841,087	5,214	6·29	9,556	11·36	14,572	17·33
	3	Thána	818,967	3,231	3·95	6,130	7·49	7,725	9·43
	4	Bombay	806,144	16,295	20·38	25,183	31·24	29,826	37·00
	5	Kolába	591,779	2,567	4·48	4,632	7·79	6,370	10·71
Central Registration District.	6	Ahmednagar	887,656	6,505	7·56	10,572	11·89	17,054	19·22
	7	Poona	1,061,449	5,102	4·96	4,825	4·54	7,266	6·85
	8	Sholápur	750,255	2,974	4·15	3,266	4·35	3,875	5·16
	9	Sátára	1,225,511	4,926	4·14	11,097	9·06	19,460	15·87
	10	Ratnágiri ...	1,105,862	6,830	6·30	3,799	3·44	7,453	6 74
Southern Registration District.	11	Belgaum	1,011,453	8,263	8·41	17,465	17·27	20,541	20·31
	12	Dhárwár	1,050,633	9,272	9·12	21,018	20·01	20,694	19·69
	13	Bijápur	796,286	4,193	5·48	5,575	6·99	13,390	16·82
	14	Kánara	446,156	4,308	9·76	4,595	10·29	5,994	13·43
Gujarát Registration District.	15	Surat	649,824	3,642	5·67	9,090	13·99	11,027	16·97
	16	Broach	341,450	1,575	4·65	3,081	9·02	5,780	16·93
	17	Kaira	871,529	5,041	5·88	8,931	10·25	23,714	27·21
	18	Panch Mahals	313,381	288	0·95	855	2·73	1,304	4·16
	19	Ahmedabad	920,928	4,408	4·85	5,999	6·52	8,741	9·49
Sind Registration District.	20	Karáchi	561,013	1,751	3·21	2,622	4·67	4,734	8·44
	21	Hyderabad	883,836	651	0·76	1,199	1·36	1,620	1·83
	22	Thar and Párkar ...	332,401	169	0·55	215	0·65	137	0·41
	23	Shikárpur	915,058	695	0·77	1,836	2·01	2,191	2·39
	24	Upper Sind Frontier ...	174,469	80	0·49	149	0·85	106	0·61

Abstract.

Western Registration District	4,521,296	31,720	7·15	60,146	13·30	79,791	17·65
Central do.	5,030,733	26,337	5·39	33,559	6·67	55,108	10·95
Southern do.	3,304,428	26,036	8·12	48,653	14·72	60,619	18·31
Gujarát do.	3,097,112	14,954	4·90	27,956	9·03	50,566	16.33
Sind do.	2,866,777	3,346	1·21	6,021	2·10	8,788	3·07
Total ...	18,820,346	102,393	5·58	176,335	9·37	254,872	13·54

Deaths since 1888.

117. The number of deaths registered from other causes in each year since 1888 was as follows :—

Year.	Number of deaths from other causes.	Year.	Number of deaths from other causes.
1888	72,284	1894	100,558
1889	78,044	1895	97,104
1890	70,663	1896	100,112
1891	81,263	1897	143,503
1892	87,196	1898	176,335
1893	89,142	1899	254,872

Under this heading all deaths are included which cannot be classed under cholera, small-pox, fever, plague, dysentery and diarrhœa or injuries. They have been increasing gradually for the last eleven years, and are now more than treble what they were eleven years before. The increase became more

pronounced in 1897 and has continued up to the present year, and will probably be even more next year.

I am of opinion that this increase is due to better registration of deaths under the headings prescribed by Government. Of course under the heading "Fever" there is always room for doubt as to the accuracy of the returns, and must for a long time remain so, considering the Agency by which the registration is carried out, but such diseases as bronchitis, asthma, measles and phthisis are being entered as such, and it is a point for consideration whether a fresh column should not be added to those already in use to be termed "Diseases of the Respiratory Organs" under which should be entered such causes of death as "Phthisis," "Cough," "Asthma," "Bronchitis" and other such diseases as may be entered in the town and village death returns.

SECTIONS VIII AND IX.

SANITARY WORKS—MILITARY AND CIVIL.

118. All available information under these sections has been thrown in a tabular form, and will be found in Appendices IV and V.

119. The Executive Engineers in charge of Military works have made the following suggestions:—

Sátára. The bath-room walls in European Infantry Barracks near the water-pipe stand are very damp, and it would be advisable to put on a $\frac{1}{2}$″ thick coating of cement plaster from inside over such portions as become damp.

In European Infantry Barracks the murum floor in the rear apartment of latrines be removed to a depth of 6″ and remade with new murum.

The ridge ventilators of European Infantry Barracks on the plain allow rain to be blown through, and that galvanized iron sheeting, with one of the sides bent upwards, be fixed along the upper edges of the main roof below the ridge ventilators, so as to prevent rain water from splashing upwards and finding its way in.

Providing a glazed drain to the stand-pipe used for washing clothes in European Infantry Barracks on plain.

Draining the swampy ground round the Native Infantry Hospital, Sátára.

Purandhar. Water-supply is deficient.

Open gutters required to carry off sullage water from hospital out-buildings.

Bombay. Flushing arrangements are required for Native latrine used by the sepoys, 2nd Bombay Grenadiers Bori Bandar Lines.

Khandála. A small shed is needed to the urinal for the convenience of men frequenting the Regimental Institute.

Hoods and chimneys of sheet iron to be provided over the fire-places, so as to carry off the smoke and to admit of the cookrooms being kept clean.

To provide a 75 gallons Larrymore boiler for sterilizing water for the use of troops stationed at Khandála.

Mhow. Moveable iron latrines are urgently needed in the 4th Bombay Rifles and for followers of British Troops

Existing surface drains from cook-houses require to be removed and the refuse caught in receptacles instead. The existing method in some parts of the station is very offensive.

Indore. Improving the drainage of the European Infantry Barracks and Hospital by constructing masonry stone drains round their plinth.

Karáchi. Nos. 6 and 7 Royal Artillery Lines double-storied single men's barracks have no verandahs to the dormitories on the upper floors, and are not as cool as No. 8, the main roof of which has been prolonged to shade the walls; this addition, no doubt, adds to the comfort of the troops.

120. It will be seen from the statement given in Appendix V that there were 166 Municipalities in the Mofussil with a population of 2,200,455 souls and an income of Rs. 55,26,695. Out of this income Rs. 27,43,860, or 49·65 per cent., were allotted for sanitary works, and out of this allotment Rs. 23,36,668, or 85·16 per cent., were spent.

121. Out of the total expenditure Rs. 10,04,991, or 43·01 per cent., were spent on conservancy; Rs. 4,66,541, or 19·97 per cent., were spent on improvement of water-supply; Rs. 1,40,967, or 6·03 per cent., on improvement of town sites; Rs. 62,576, or 2·68 per cent., were spent on construction and repairs of markets and slaughter-houses; Rs. 36,560, or 1·56 per cent., were spent on sanitary arrangements during fairs and festivals, and Rs. 6,25,033, or 26·75 per cent., were spent on sanitary objects, including construction and repairs of tanks, &c. The district and divisional details are given below:—

Municipalities.	Population as per Census of 1891.	Income of 1893-99.	Rate per cent. of Sanitary allotment to estimated income.	Rate per cent. of Sanitary expenditure to amount sanctioned.	Sanitary Allotment.		Conservancy.		Improvement of Town sites.		Improvement of water-supply, including cleaning, repairing, &c.		Sanitary arrangements during fairs and festivals.		Construction and repairs of markets and slaughter-houses.		Other sanitary objects, including construction and repairs of tanks, &c.	
					Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.
		Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Division,																		
Ahmedabad	232,487	5,03,284	50·58	92·50	2,54,505	2,35,483	1,16,200	1,10,894	4,560	2,518	87,521	85,389	80	60	7,121	6,946	39,083	29,636
Kaira	125,813	1,42,900	36·47	80·11	52,112	41,749	28,307	22,032	5,915	4,935	2,661	1,179	1,300	1,146	113	104	13,816	12,353
Panch Mahâls ...	31,722	33,715	29·49	89·72	9,943	8,921	5,058	4,642	2,440	2,185	440	160	...	...	...	...	3,005	1,934
Broach	72,314	1,44,939	55·74	83·52	80,791	67,474	36,764	31,996	1,160	1,132	4,085	2,256	...	...	2,155	868	36,027	31,222
Surat	138,363	6,80,521	39·52	81·50	2,68,922	2,19,167	70,239	56,104	30,060	18,835	74,941	47,437	...	...	3,597	2,908	90,175	93,883
Thâna...	89,713	2,03,761	34·99	91·11	79,319	72,934	37,817	34,570	1,464	1,415	29,391	24,292	111	97	1,627	1,216	11,909	11,344
Central Division,																		
Ahmednagar ...	63,374	1,12,264	32·96	90·85	34,005	30,892	29,318	27,125	50	30	1,216	602	...	...	2,270	1,985	1,151	1,060
Khándesh	197,719	2,24,044	33·99	80·84	76,149	61,558	40,198	36,676	12,178	9,422	5,392	3,861	30	4	5,434	3,097	12,917	8,498
Násik	77,981	1,47,623	56·28	94·61	81,314	78,610	32,807	30,498	2,718	2,718	31,415	31,305	86	86	761	583	13,527	13,420
Poona...	178,082	4,40,032	59·27	90·95	2,60,788	2,37,182	1,42,395	1,33,715	10,799	4,126	22,867	20,077	610	515	6,230	5,547	77,887	73,202
Sátára	111,526	1,94,432	18·49	86·56	35,943	31,118	25,660	21,115	491	294	5,796	5,399	150	250	1,526	1,294	2,325	2,762
Sholápur	114,379	4,12,197	58·52	51·20	2,41,224	1,23,503	38,114	32,630	1,425	406	50,343	40,561	1,29,905	32,821	852	626	20,785	16,559
Southern Division,																		
Belgaum	75,126	1,05,624	53·29	88·30	56,289	49,701	42,902	41,144	5,026	2,575	2,914	1,299	1,700	1,426	334	310	3,413	2,947
Dhárwár	149,574	2,88,404	51·25	87·70	1,47,817	1,29,639	96,973	88,056	6,333	3,021	16,674	15,679	34	24	1,224	466	26,579	22,393
Bijápur	61,169	75,136	38·66	72·35	29,044	21,013	22,144	17,072	...	...	2,546	1,395	...	...	2,124	423	2,230	2,134
Kánara	54,246	56,663	19·46	80·23	10,927	8,767	8,349	7,771	298	202	1,115	142	55	53	460	273	650	326
Ratnágiri	45,949	50,008	40·09	86·37	20,149	17,403	5,991	4,873	77	77	4,782	4,325	...	...	356	123	8,944	8,005
Kolába	47,007	54,474	24·22	93·22	13,191	12,297	10,014	9,540	45	31	2,101	1,879	...	.	150	98	881	751
Sind Division,																		
Karáchi	127,256	7,38,055	80·75	90·29	5,95,976	5,38,100	1,77,324	1,60,530	72,421	67,788	22,570	18,205	100	74	7,993	6,597	3,15,568	2,84,852
Hyderabad	81,681	3,57,801	86·37	96·83	2,00,986	1,94,413	44,075	47,163	4,167	2,904	1,41,360	1,38,178	...	...	1,585	994	9,799	5,174
Thar and Párkar ...	6,693	19,384	15·78	88·82	3,059	2,717	1,832	1,818	375	290	170	140	...	...	622	419	60	50
Shikárpur	109,987	4,61,368	32·43	82·19	1,52,127	1,23,680	84,693	76,363	21,090	16,063	34,254	22,498	...	...	9,649	6,676	2,150	2,280
Upper Sind Frontier	8,294	80,066	48·98	76·88	39,215	30,147	9,605	8,614	...	...	430	203	...	...	29,040	21,082	140	248

Abstract.

Northern Division...	690,412	17,09,120	43·63	86·60	7,45,652	6,45,728	2,94,385	2,60,238	45,599	31,020	1,96,639	1,60,713	1,491	1,383	14,523	12,082	1,93,015	1,80,372
Central Division ...	743,061	15,30,592	47·66	77·16	7,29,428	5,62,863	3,08,492	2,81,759	27,661	16,996	1,17,029	1,01,895	1,30,781	33,676	17,073	13,036	1,28,392	1,15,501
Southern Division ...	433,071	6,30,309	44·01	86·01	2,77,417	2,38,820	1,86,373	1,68,456	11,779	5,906	30,132	24,709	1,789	1,503	4,647	1,699	42,697	36,556
Sind Division ...	333,911	16,56,674	59·84	89·70	9,91,363	8,89,257	3,17,529	2,94,538	98,053	87,045	1,98,784	1,79,224	100	74	18,880	35,768	3,29,017	2,92,604
Total ...	2,200,455	55,26,695	49·65	85·16	27,43,860	23,36,668	11,06,779	10,04,991	1,83,092	1,40,967	5,42,584	4,66,541	1,34,161	36,560	55,123	62,576	6,92,121	6,25,033

Allotment and expenditure on sanitary works by Local Boards.

122. The following are the district and divisional details of the allotment and expenditure from the District and Táluka Local Boards, and it will be seen from it that a large portion (72·45 per cent.) of the amount was spent on improvement of water-supply.

Statement showing the Estimated Income and Allotment for Sanitation during the year 1898-99 in the District Local Boards of the Bombay Presidency.

District Local Boards.	Population as per Census of 1891.	Area in square miles.	Number of Villages in the Circle.	Number of villages conserved.		Estimated Income of 1898-99.	Rate per cent. of allotment to estimated income.	Rate per cent. of sanitary expenditure to allotment.	1898-99.											
				Number of Unions.	Number of other Villages.				Sanitary allotment.		Conservancy.		Improvement of village sites.		Improvement of Water-supply, including cleansing, repairing and construction of Tanks and Wells.		Sanitary arrangements at Fairs and Festivals.		Construction and repair of Markets and Slaughter-houses.		Other sanitary objects, including construction and repair of Latrines, Dust-bins, Drains, &c.	
									Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Division.																						
Ahmedabad	920,928	3,821	1,184	...	10	1,75,651	39·62	30·79	69,599	21,429	...	...	...	...	69,599	21,429	...	...	...	...	...	...
Kaira	871,529	1,596	573	...	16	2,55,169	42·23	35·95	1,07,750	38,736	...	..	...	...	84,205	30,055	...	...	...	...	23,545	8,681
Panch Mahâls ...	313,381	1,604	692	...	4	43,700	29·60	79·62	12,936	10,299	175	115	75	28	12,100	9,887	...	...	...	...	586	269
Broach	341,450	1,453	421	...	12	1,04,520	50·27	85·55	52,859	45,220	2,499	849	500	479	38,815	35,108	128	91	...	...	10,917	8,693
Surat	649,824	1,662	824	1(2)	4	4,29,089	4·86	90·75	20,861	18,932	...	...	...	...	16,963	15,167	...	...	...	...	3,898	3,765
Thâna...	818,967	3,769	1,688	...	3	1,68,702	23·67	65·47	39,939	26,149	3,127	2,693	50	...	33,782	21,148	...	...	...	...	2,980	2,308
Central Division.																						
Ahmednagar ...	887,656	6,594	1,362	...	8	1,86,111	5·60	55·08	10,423	5,741	...	...	...	...	10,423	5,741	...	...	...	...	...	...
Khándesh	1,460,319	10,454	3,317	...	5	4,15,754	4·57	77·16	19,010	14,669	...	...	...	...	19,010	14,669	...	...	...	..	...	...
Násik	841,087	5,935	1,694	...	35	42,680	28·26	51·46	12,061	6,207	...	...	72	57	11,989	6,150	...	...	...	...	...	...
Poona	1,061,449	5,349	1,204	...	45	1,31,864	5·98	71·90	7,896	5,677	...	...	400	400	7,496	5,277	...	...	...	...	...	...
Sátára	1,225,511	4,988	1,345	...	7	1,54,679	13·86	53·86	21,431	11,542	667	417	...	...	20,764	11,125	...	...	...	...	...	...
Sholápur	750,255	4,542	717	...	1	87,186	9·59	76·41	8,365	6,392	120	120	629	517	7,616	5,755	...	...	...	...	...	...
Southern Division																						
Belgaum	1,011,453	4,656	1,133	...	6	1,24,738	8·66	84·99	10,803	9,181	1,115	1,000	...	...	9,388	8,181	...	...	...	...	...	...
Bijápur	796,286	5,693	1,169	...	35	2,56,514	0·95	58·58	21,336	12,498	4,683	4,682	...	...	16,653	7,816	...	...	...	...	...	...
Dhárwár	1,050,533	4,535	1,472	...	20	2,40,082	12·71	39·80	30,505	9,395	...	...	440	402	30,065	8,993	...	...	...	...	...	...
Kánara	446,156	3,943	1,406	...	...	67,435	4·31	83·95	2,904	2,438	827	816	...	...	2,077	1,622	...	...	...	...	...	...
Kolába	594,779	2,137	1,632	...	11	87,355	25·16	41·30	21,976	9,077	...	...	...	...	21,976	9,077	...	...	...	...	...	...
Ratnágiri	1,105,862	3,910	1,329	...	4	1,32,759	7·36	57·38	9,974	5,723	...	...	...	...	9,974	5,723	...	...	...	...	...	...
Sind Division.																						
Karáchi	561,013	14,221	3,473	...	37	55,121	15·34	72·35	8,455	6,117	252	239	390	94	7,753	5,724	...	...	60	60	...	...
Hyderabad	883,836	8,313	1,590	...	22	1,44,428	10·35	64·51	14,947	9,643	...	...	...	...	8,923	4,169	710	252	...	...	5,314	5,222
Shikárpur	915,053	8,039	1,163	...	7	2,90,727	23·57	91·28	68,539	62,560	2,954	2,847	...	...	14,940	12,569	...	...	...	...	50,645	47,144
Thar and Párkar ...	332,401	13,439	2,491	...	7	46,320	10·01	56·32	4,638	2,612	1,372	1,372	...	...	3,231	1,205	...	...	35	35	...	...
Upper Sind Frontier.	174,469	2,602	1,29	...	...	86,897	2·52	89·83	2,193	1,970	156	155	460	460	1,577	1,355	...	...	...	...	...	...

Abstract.

Northern Division...	3,916,079	13,905	5,383	1	49	11,76,831	25·83	52·89	303,944	1,60,765	5,801	3,657	625	507	2,55,464	132,794	128	91	...	...	41,926	23,716
Central Division ...	6,226,277	37,862	9,636	...	101	10,18,284	7·78	63·43	79,186	50,228	787	537	1,101	974	77,298	48,717	...	...	...	...	...	...
Southern Division...	5,005,069	24,874	8,141	...	76	29,08,883	3·35	49·55	97,498	48,312	6,925	6,498	440	402	90,133	41,412	...	...	...	...	...	...
Sind Division ...	2,866,777	46,614	10,007	...	73	6,23,493	15·84	83·93	98,772	82,902	4,734	4,613	850	554	36,424	25,022	710	252	95	95	55,959	52,36
Total ...	18,014,202	123,255	33,170	1	299	57,27,491	10·12	59·06	579,400	3,42,207	18,247	15,305	3,016	2,437	4,59,319	247,945	838	343	95	95	97,885	76,082

123. The following table shows when the drainage and water-works were completed, and the average annual death-rate since the completion, and the average annual death-rate for the five-year period preceding the introduction and the ratio for rural circles and districts:—

Name of District.	Táluka.	Town.	Date of completion of work of		Average annual death-rate since the introduction of drainage system or water-supply or both.	Average annual death-rate for the five year period preceding the introduction of drainage system or water-supply or both.	Ratio of Rural Circle excluding the towns for the year 1899.	Ratio for districts excluding the towns for the year 1899.	Remarks.
			Drainage.	Water-supply.					
1	2	3	4	5	6	7	8	9	10
.....	.....	Bombay ...	1879*a*...	1892*b*...	.....	Not available.	...	...	*a*. Drainage works commenced in 1879, though still in progress, are very far from complete.
Khándesh ...	Dhulia ...	Dhulia	...	1896 ...	39·58	32·5	45·35	29·75	
Ahmednagar ...	Ahmednagar ...	Ahmednagar ...	...	*c*	.....	.....	36·47	30·15	
Sholápur ...	Sholápur ...	Sholápur ...	...	1892 ...	.....	38·33	38·06	29·09	*b*. Tánsa Water Works completed in 1892. Besides this there are Vehar and Tulsi Water Works.
Surat	Olpád ...	Surat	...	1898 ...	37·38	39·77	35·09	36·46	
Ahmedabad ...	Daskrohi ...	Ahmedabad ...	1893*d*...	1891*e* ...	43·04	45 21	26·38	27·56	
Karáchi ...	Karáchi ...	Karáchi ...	1895 ...	1884 ...	53·46	35·15	...	17·15	*c*. The improvement of water-supply of Wadgaon aqueduct works taken in hand during 1896-97 were in progress.
Hyderabad ...	Hyderabad ...	Hyderabad ...	...	1879 ...	.....	.....	...	11·79	
Shikárpur ...	Sukkur ...	Sukkur ...	...	1895*f*...	30·13	28·70	...	21·02	
Thána... ...	Sálsette ...	Thána	...	1881 ...	21·54	22·9	37·47	27·78	
.....	.....	Bándra... ...	...	1896 ...	60·66	23·1	37·47	27·78	*d*. Drainage system partially introduced.
Kolába ...	Alibág ...	Alibág	...	1876 ...	29·56	Nor available.	30·71	23·32	
.....	Roha... ...	Roha-Ashtámi ...	...	1884 ...	Not available.	22·0	20·62	23·32	*e*. Water-supply complete.
.....	Panvel ...	Panvel	...	1895 ...	40·03	19·5	23·88	23·32	*f*. Since 1897 the death-rate rose on account of plague.
Poona... ...	Mával ...	Talegaon Dabhade.	...	1897 ...	21·45	80·8	24·11	22·39	
Sholápur ...	Pandharpur ...	Pandharpur ...	1882 ...	1879 ...	44·70	58·8	18·11	20·88	*g*. In 1893 the gradient of the channel round the town was improved to carry away the sullage water that used to accumulate and stagnate round the town.
Sátára ...	Sátára ...	Sátára	...	1886 ...	32 58	.....	48·92	20·39	
Ratnágiri ...	Ratnágiri ...	Ratnágiri ...	...	1881 ...	20·91	No record.	28·91	19·88	
.....	Rájápur ...	Rajápur ...	...	1873 ...	22·6	Do. ...	19·26	19 68	
.....	Vengurla ...	Vengurla ...	...	1878 ...	20·	20·d	Not shown in this report	19·68	*h*. The result of better registration.
Dhárwár ...	Hubli ...	Hubli	...	1894 ...	26·31	25·7	...	64·76	
Ahmedabad ...	Viramgám ...	Viramgám ...	1893*g*...	...	41·35	69·26	25·19	24·19	*These ratios are up to the year 1898.
.....	Dholka ...	Dholka ...	1884 ...	...	36·07*h*	25·25	25·62	24·19	

Bombay Village Sanitation Act.

124. The Bombay Village Sanitation Act of 1889 has been introduced in 5 other villages during the year 1899, and abolished in 4 villages, making a total 300 since the introduction of the Act in the year 1895—against 299 in the previous year. The committees at Vejalpur in Kálol Táluka of the Panch Maháls District, at Bhadiad and Detraj in the Dhandhuka and Viramgám Tálukas, respectively, of the Ahmedabad District, and at Bulri in the Guni Táluka of the Hyderabad District—in all in four villages—have been abolished, and in five villages, *viz.*, Kalol in Kálol Táluka of the Panch Maháls District, Khatian in Hyderabad Táluka, Old Hála and Bhitshah in Hála Taluka and Beravi in Shahdádpur Táluka of the Hyderabad District, the Act has been introduced and committees established during the year 1899. As the attention of the district officers has been engaged on famine, no progress has been made in the establishment of village committees under the Village Sanitation Act. The following table gives the names of the villages and the date of the introduction of the Act:—

Collectorate.	Táluka.	Village.	Date.		Collectorate.	Táluka.	Village.	Date.	
Khándesh ...	Páchora ...	Páchora, Krishnápuri	1897	Working on the modified form of the Act sanctioned in Government Resolution No. 1090, dated 6th March 1896, General Department.	Násik—*contd.*	Niphád ...	Chándori ...	1897	Working on the modified form of the Act sanctioned in Government Resolution No. 1090, dated 6th March 1896, General Department.
	Chálisgaon ...	Chálisgaon ...	1896				Sukene	„	
	Jámner ...	Jámner	„				Kaykheda ...	„	
	Bhusával ...	Badwada ...	„			Sinnar ...	Pandurli ...	„	
		Varangaon ...	„				Wadangli ...	„	
Násik... ...	Chándor ...	Wadner ...	1898				Wáwi	„	
		Pimplad ...	„				Deopur	„	
	Násik... ...	Makhmalabad ...	1897				Shaba	„	
	Dindori ...	Khedgaon ...	„				Panchale ...	„	
		Workhed ...	„				Dápur	„	
	Niphád... ...	Niphád	„				Dubere	„	
		Pimpalgaon Baswant	„				Thangaon ...	„	
		Ozar	„			Igatpuri ...	Ghoti Budruk ...	„	
		Lasalgaon ...	„			Yeola... ...	Nagarsal ...	„	
		Vinchur	„				Mukhed... ...	„	
							Patode... ...	„	

Collectorate.	Táluka.	Village.	Date.
Násik—*contd.*	Násik ...	Bhagur ...	1895
		Devláli ...	„
	Dindori ...	Dindori ...	„ Working on the modified form of the Act sanctioned in G. R. No. 1090, dated 6th March 1896, G. D.
		Janori ...	„
		Mohadi ...	„
		Wani ...	„
	Chándor ...	Chándor ...	„
	Naudgaon ...	Nándgaon ...	„
	Kalvan ...	Kalván ...	„
Thána ...	Kalyán ...	Budlapur ...	1896
	Dahánu ...	Chinchni ...	1895
	Máhim ...	Tárápur ...	„
Kolába ...	Panvel ...	Karanja ...	1898
		Taloje ...	1897
	Mángaon ...	Goregaon ...	„
	Karjat ...	Khalapur ...	1896
		Karjat ...	1895
		Dahiwali ...	„
		Neral ...	„
	Roha ...	Chavere ...	„
		Medhe ...	„
	Mángaon ...	Tale ...	„
	Panvel ...	Vendhane ...	„
Ahmednagar ...	Párner ...	Párner ...	1899 Proclamation has been issued and Rules framed but the Committee has not begun to work yet.
	Karjat ...	Mirajgaon ...	1898
	Jámkhed ...	Kada ...	1896
	Shrigonda ...	Shrigonda ...	„
	Jámkhed ...	Jámkhed ...	1895
	Shevgaon ...	Páthardi ...	„
	Nevása ...	Nevasa Khurd ...	„
	Karjat ...	Karjat ...	„
Poona ...	Purandhar ...	Balsár ...	1896
	Peta Dhond ...	Patas ...	1895
		Pargaon ...	„
		Dhond ...	„
	Indápur ...	Nimbgaon-Ketki	1897
		Bhigwan ...	„
	Sirúr ...	Talegaon Dhamdhere ...	„
		Pabal ...	„
		Malthán ...	„
		Kendur ...	„
		Mandavgan Pharata ...	„
	Purandhar ...	Parinche ...	„
		Kikvi ...	„
		Walhe ...	„
		Vir ...	„
	Peta Dhond ...	Yewat ...	„
		Rahu ...	„
		Pimpalgaon ...	„
		Warwand ...	„
		Kangaon ...	„
	Haveli ...	Chinchvad ...	„
		Aundh ...	„
		Parwati ...	„
		Khed Shiwapur ...	„
		Charoli Budruk ...	„
		Lonli Kalbhar ...	„
		Wanawdi ...	„
		Gorpadi ...	„
		Chikhli ...	„
	Junnar ...	Otur ...	„
		Narayangaon ...	„
		Pimpalwandi ...	„
		Ale ...	„
		Belhe ...	„
		Rajuri ...	„
	Khed ...	Awasri Khurd ...	„
		Chakan ...	„
		Chas ...	„
		Wafagaon ...	„
	Bhimthádi ...	Supa ...	„
		Loni ...	„
		Pandare ...	„
		Morgaon ...	„
		Wadgaon ...	„
		Rawangaon ...	„ The Act has not yet been formally introduced into the villages although the notifications have been eventually confirmed.

Collectorate.	Táluka.	Village.	Date.
Sholápur ...	Pandharpur ...	Kasegaon ...	1895
Sátára ...	Válva ...	Shirála ...	1897
	Khatav ...	Pussesavli ...	„
	Válva ...	Kassegaon ...	1895
	Tásgaon ...	Palas ...	„
		Kupwad ...	„
		Hingangaon ...	„
		Akalkope ...	„
Ratnágiri ...	Khed ...	Khed ...	1897
	Dápoli ...	Veshvi ...	„
		Velas, peth Bánkot.	„
	Málvan ...	Málvan ...	1896
Belgaum ...	Athni ...	Ainápur ...	1896
		Kudchi ...	„
	Chikodi ...	Sankeswar ...	„
		Chikodi ...	1895
	Gokák ...	Ydawad ...	„
	Khánápur ...	Bidi ...	„
Dhárwár ...	Kalghátgi ...	Mishrikot ...	1898
	Hubli ...	Nulvi ...	1897
	Bankápur ...	Hulgur ...	„
	Karajgi ...	Hathimattur ...	„
	Kod ...	Masur ...	„
		Hirekerur ...	„
		Chickkerur ...	„
		Havashhavi ...	„
	Hubli ...	Koliwad ...	1896
		Shirguppi ...	„
	Dhárwár ...	Garag ...	1895
		Aminbhávi ...	„
	Kalghatgi ...	Kalghátgi ...	„
	Navalgund ...	Aumgeri ...	1894
		Morab ...	„
		Shelvadi ...	„
	Ron ...	Ron ...	„
		Mulgund ...	„
	Gadag ...	Mundargi ...	„
		Hambal ...	„
Bijápur ...	Sindgi ...	Almel ...	1896
		Hippargi ...	„
		Sindgi ...	1895
	Bágalkot ...	Bilgi ...	„
		Sirur ...	„
		Kaládgi ...	„
	Bádámi ...	Badámi ...	„
		Kerur ...	„
	Hungund ...	Hungund ...	„
		Amingad ...	„
		Kamatgi ...	„
		Gudur ...	„
	Indi ...	Indi ...	„
		Tambe ...	„
		Salatgi ...	„
		Chadachyan ...	„
		Horti ...	„
		Atharga ...	„
		Tádvalga ...	„
	Bijápur ...	Honwad ...	„
		Bábleshwar ...	„
		Kakhandaki ...	„
		Sárwad ...	„
		Mamdápur ...	„
		Bijjargi ...	„
	Muddebihál ...	Muddebihál ...	„
		Nalatvad ...	„
		Talikot ...	„
	Bágevádi ...	Bágevádi ...	„
		Mangoli ...	„
		Nidagundi ...	„
		Yalwar ...	„
		Kolhar ...	„
		Ukhali ...	„
		Mulwad ...	„
Kanara ...	.....	Nil ...	...
Surat ...	Bárdoli ...	Bárdoli ...	1896
	Olpád ...	Olpád ...	„
	Chikhli ...	Chikhli Samroli	„
	Párdi ...	Párdi ...	„
	Chorási ...	Adaján ...	„
Broach ...	Broach ...	Pálej ...	1897
	Jambusar ...	Gajera ...	„

Collectorate.	Táluka.	Village.	Date.	Collectorate.	Táluka.	Village.	Date.
Broach—*continued.*	Anklesvar ...	Diva	1897	Karáchi—*continued.*	Johi	Shah Hassan ...	1893
		Mandwa Bujarg.	,,			Bahavalpur ...	,,
	Hánset Petha Mahál.	Iláv	,,			Phulgi	,,
	A'mod ...	Ikhar	1896			Tando Rahim Khán	,,
		Sarbhon... ...	,,			Digh "Mathin".	,,
		Achhod	,,		Sehwan ...	Jhanghár ...	,,
	Broach ...	Jhanar	,,			Bajar	,,
		Nikora	,,		Tatta... ...	Jerruck... ...	,,
		Jhadeshwar ...	,,			Sonda	,,
		Shuklatirth ...	,,		Sehwan ...	Bhán	1892
Kaira	Mátar... ...	Mátar	1898			Talti	,,
	Mehmadabad...	Sinhunj	1893		Dádú	Dádú	,,
		Wanthanwali ...	,,			Sita	,,
	Mátar... ...	Radu	,,			Phaka	,,
		Naeka	,,			Pat	,,
	Thásra ...	Thásra	,,		Sakra... ...	Gharo	,,
		Kalsar	,,			Sakro	,,
	Kapadvanj ...	Antroli	,,		Jati	Sando Bandar ...	,,
		Lasundra ...	,,		Sháhbandar ...	Chuhar Jamali...	,,
		Kathlal	,,	Hyderabad ...	Hyderabad ...	Khatian... ...	1899
	Nadiád ...	Chuklasi ...	,,		Hála	Old Hala ...	,,
		Alina	,,		,,	Bhitshah ...	,,
	Borsad ...	Anklao	,,		Shahdádpur ...	Berani	,,
		Virsad	,,		Hyderabad ...	Tando Kaisar ...	1895
	A'nand ...	Sarsa	,,		Tando Bago...	Tando Bago ...	,,
		Karamsad ...	,,		Dero Mohbat .	Mátli	,,
Panch Máhals	Kálol... ...	Kálol	1899		Badin... ...	Tulhar	,,
	Jhálod ...	Limbdi	1897			Badin	,,
	Hálol... ...	Hálol	1893			Nindoshahir ...	,,
	Jhálod ...	Jhálod	,,		Hála	Ghotána... ..	1894
Ahmedabad ..	Dholka ...	Gadag Gangad...	1896			Lál Udéro ...	,,
		Chalada Chaloda.	,,		Sakrand ..	Sakrand... ...	1893
		Koth	,,			Khári Nakur ..	,,
	Daskroi ...	Uwarsad ...	1895		Moro	Moro	,,
		Bareja	,,		Naushahro ...	Naushahro ...	,,
	Sánand ...	Kasandra ...	,,			Bhiria	,,
	Dholka ...	Bavla	,,			Tháru Sháh ..	,,
	Parántij ...	Harsol	1893		Kandiáro ...	Kandiáro ...	,,
	Modása ...	Dhunsura ...	1892		Hyderabad ..	Shaik Bhirkio ...	1892
	Sánand ...	Sarkhej	,,		Shahdádpur ...	Shahdadpur ...	,,
Karáchi ...	Sehwan ...	Bilawalpur ...	1898		Hyderabad ...	Tando Jam ...	1891
		Arazi	,,	Shikárpur ...	Nasirabad ...	Násirabad ..	1895
	Mánjhand ...	Kachi	1896			Wárah	1893
		Chachar ...	,,		Kakar... ...	Khairpur Nathan Shah ...	,,
	Mirpur Batoro.	Jhoke	,,		Mehar ...	Mehar	,,
	Jati	Moghalbin ...	1895		Mirpur ...	Mirpur	,,
	Mirpur Batoro.	Mirpur Batoro ...	1894		Ubauro ...	Ubauro	,,
		Daro	,,		Labdaria ...	Dokri	1892
	Sujával ...	Sujával	,,		Mirpur ...	Mirpur	1893
	Mánjhand ...	Laki	1893	Thar and Párkar.			
		Amri	,,				
		Lakhá	,,		Umarkot ...	Nabisar	1892
		Sann	,,		Khipro ..	Khipro	,,
	Kotri	Bhian	,,		Sánghar ...	Sanghar... ...	,,
		Budhapur ...	,,		Diplo	Diplo	,,
		Unarpur ...	,,		Nagar... ...	Nagar	,,
		Manjhu... ...	,,		Cháchra ...	Cháchra... ...	,,
		Bádá	,,				

Village Sanitary Inspection Book, Government Resolution No. 4512, dated 19th August 1897, General Department.

125 In the following statement the names of the districts and tálukas and the number of selected villages in which the Village Sanitary Inspection Book has been introduced during the year 1899 by Collectors are given. The total number of villages in which the Village Sanitary Inspection Book has been introduced is 3,225 against 3,199. Out of this number, 5 books in the Poona and Sholápur Districts in the Central Registration District and 12 books in the Hyderabad and Thar and Párkar Districts of the Sind Registration District have been written up by the Deputy Sanitary Commissioners of those districts and 342 books in 18 districts have been written up by the Inspectors of Sanitation and Vaccination. Owing to the absence on leave and deputation of the Deputy Sanitary Commissioners on either cholera or famine duty, a greater number of books have not been written up,

District.	Táluka.	Number of villages in which the village Sanitary Inspection Book is introduced.	Number of villages in which the village Sanitary Inspection Book has been written up by the Sanitary Department.	Remarks.
1	2	3	4	5
	Northern Division.			
Ahmedabad ...	Daskroi	21	...	
	Dholka	13	...	
	Dhandhuka ...	15	...	
	Viramgám	26	2	
	Parántij	10	...	
	Modása Petha Mahále	4	...	
	Sánand	5	...	
	Gogha Máhál ...	6	...	
		100	2	
Kaira	Mátar	80	10	The Collector says :—that the Village Sanitary Inspection Book has been introduced into all the villages of the district.
	Thásra	96	25	
	Kapadvanj	87	28	
	Nadiád	91	31	
	Borsad	89	18	
	A'nand	72	11	
	Mehmadabad ...	58	15	
		573	138	
Panch Mahals...	Godhra	20	7	
	Kálol	18	4	
	Dohad	16	...	
	Hálol	16	3	
	Jhálod	11	...	
		81	14	
Broach... ...	Broach	109	2	The Collector says :—Village Sanitary Inspection Book has been introduced into all the villages of the district.
	Vágra	69	6	
	A'mod	51	...	
	Jambusar	87	...	
	Ankleshvar ...	105	9	
	Hánsot	...	6	
		421	23	
Surat	Olpád	63	18	
	Chorási	6	3	
	Bárdoli	124	8	
	Jalálpur	9	...	
	Chikhli	7	...	
	Bulsár	26	...	
	Párdi	14	...	
	Mándvi	10	6	
		259	35	

District.	Táluka.	Number of villages in which the village Sanitary Inspection Book is introduced.	Number of villages in which the village Sanitary Inspection Book has been written up by the Sanitary Department.	Remarks.
1	2	3	4	5
	Northern Division—continued.			
Thána	Sálsette	7	...	
	Bassein	5		
	Dáhánu	9		
	Bhiwndi	20		
	Váda	17		
	Máhim	20		
	Kalyán	18		
	Murbád	25		
	Sháhápur	20		
		141	...	
	Central Division.			
Ahmednagar ...	Ahmednagar ...	3	...	
	Párner	4		
	Shrigonda	4		
	Karjat	4		
	Jámkhed	4		
	Shevgaon	4		
	Nevása	4		
	Ráhuri	4		
	Kopargaon	4		
	Sangamner ..	3		
	Akola	4		
		42	...	
Khándesh ...	Dhulia	2	1	
	Amalner	2	...	
	Erandol	3	...	
	Páchora	5	...	
	Chálisgaon	1	...	
	Pimpalner	3	...	
	Nandurbár ...	1	...	
	Taloda	1	1	
	Sháháda	3	...	
	Sindkheda	4	...	
	Shirpur	1	1	
	Chopda	3	...	
	Sávda	4	...	
	Bhusával	5	...	
	Jalgaon	4	...	
	Jámner	4	...	
		46	3	

District.	Taluka.	Number of villages in which the village Sanitary Inspection Book is introduced.	Number of villages in which the village Sanitary Inspection Book has been written up by the Sanitary Department.	Remarks.
1	2	3	4	5
	Central Division—continued.			
Násik	Násik	14	...	
	Sinnar	13		
	Igatpuri	36		
	Dindori	12		
	Niphád	40		
	Chándor	12		
	Yeola	17		
	Málegaon	51		
	Nándgaon	7		
	Báglán	20		
	Kalvan	19		
	Peint	4		
		245	...	
Poona	Junnar	6	3	
	Indápur	6	3	
	Khed	7	4	
	Sirur	9	...	
	Purandhar	5	...	
	Bhimthadi	17	2	
	Haveli	13	...	
	Mával	4	...	
		67	12	
Sátára	Karád	28	3	
	Válva	19	...	
	Sátára	25	...	
	Vái	8	...	
	Jávli	12	...	
	Khánápur	10	...	
	Koregaon	9	...	
	Mán	8	...	
	Pátan	25	1	
	Khatáv	25	...	
	Tásgaon	8	...	
	Petha Khandála ...	2	...	
	„ Málcolmpeth	1	...	
	„ Shirála ...	12	...	
		192	4	
Sholápur ...	Sholápur	30	2	
	Bársi	9	...	
	Mádha	25	2	
	Karmála	10	...	
	Pandharpur ...	10	...	
	Sángola	15	...	
	Málsiras	10	...	
		109	4	

District.	Táluka.	Number of villages in which the village Sanitary Inspection Book is introduced.	Number of villages in which the village Sanitary Inspection Book has been written up by the Sanitary Department.	Remarks.
1	2	3	4	5
	Southern Division.			
Belgaum ...	Belgaum	4	1	
	Chikodi	27	...	
	Athni	29	...	
	Gokák	19	...	
	Parasgad	7	...	
	Sampgaon	12	...	
	Khánápur	5	...	
	Hukeri Mahál ...	15	...	
		118	1	
Bijápur ...	Indi	10	...	
	Sindgi	24	2	
	Bijápur	22	5	
	Bágevádi	25	...	
	Muddebihál ...	25	...	
	Bágalkot	24	...	
	Bádámi	25	...	
	Hungund	18	...	
		173	7	
Dhárwár ...	Dhárwár	5	...	
	Hubli	5	2	
	Navalgund	6	...	
	Gadag	9	7	
	Bankápur	5	1	
	Ránnebennur ...	5	...	
	Hángal	5	1	
	Karajgi	5	1	
	Kalghatgi	5	...	
	Kod	6	...	
	Ron	6	4	
		62	16	
Kánara ...	Kárwár	34	23	
	Ankola	12	2	
	Kumta	22	...	
	Honávar	24	3	
	Siddápur	33	...	
	Sirsi	84	...	
	Supa	10	...	
	Yellápur	13	...	
	Bhatkal Petha ...	13	...	
	Mundgod Petha ...	12	...	
	Haliyál	18	...	
		275	28	

District.	Táluka.	Number of villages in which the village Sanitary Inspection Book is introduced.	Number of villages in which the village Sanitary Inspection Book has been written up by the Sanitary Department.	Remarks.
1	2	3	4	5
	Southern Division—continued.			
Ratnágiri ...	Vengurla	...	...	
	Málvan	...	...	
	Devgad	1	1	
	Bijápur	1	...	
	Ratnágiri	16	2	
	Sangameshvar ...	9	2	
	Chiplún	2	1	
	Khed	1	...	
	Dápoli	7	...	
	Petha Mandangad ...	4	...	
	Petha Guhágar ...	3	...	
		44	6	
Kolába... ...	Alibág	13	...	
	Pen	5		
	Panvel	8		
	Karjat	5		
	Roha	4		
	Mángaon	12		
	Mahád	9		
	Petha Nágothna ...	4		
	„ Uran ...	3		
	„ Khálápur ...	2		
		65	...	
	Sind Division.			
Karáchi ...	Karáchi Sákro ...	5	2	
	Tatta	...	...	
	Ghorábári	...	...	
	Shahbandar Jati ...	5	2	
	Sujával Mirpur Batoro	5	2	
	Kotri Mánjhand ...	13	4	
	Selwán	7	...	
	Dádu	6	2	
	Johi	9	...	
		50	12	
Hyderabad ...	Hyderabad	10	4	
	Guni	6	2	
	Badin	2	2	
	Tando Bágo ...	3	3	
	Dero Mohbat ..	3	...	
	Tando Alahyar ...	19	3	
	Shahdádpur ...	5	2	
	Hála	2	...	
	Sákrand	10	...	
	Moro	10	3	
	Naushahro	14	7	
	Kandiáro	8	1	
		92	27	

District.	Táluka.	Number of villages in which the village Sanitary Inspection Book is introduced.	Number of villages in which the village Sanitary Inspection Book has been written up by the Sanitary Department.	Remarks.
1	2	3	4	5
	Sind Division—continued.			
Shikárpur ...	Shikárpur	...	...	
	Sukkur	...	...	
	Naushahro	...	...	
	Rohri	...	...	
	Ghotki	1	1	
	Mirpur	1	1	
	Ubauro	2	...	
	Lárkhána... ...	...	...	
	Labdarya	1	1	
	Kambar	...	...	
	Rato-dero	...	...	
	Mehar	1	1	
	Kakar	2	...	
	Nasirabad	3	2	
		11	6	
Thar and Párkar.	Umarkot	6	3	
	Cháchro	5	...	
	Khipra	5	5	
	Sánghar	4	7	
	Thar	...	...	
	Párkar	...	...	
	Mirpur Khás ..	14	3	
	Dipla	1	...	
	Nagar	2	...	
	Mithi	1	...	
		38	18	
Upper Sind Frontier.	Jacobabad	6	...	
	Thul	3	2	
	Kashmor	7	1	
	Shahdádpur ...	5	...	
		21	3	
	Total ...	3,225	359	

SECTION X.

PERSONAL PROCEEDINGS AND GENERAL REMARKS.

126. I was in charge of the Department up to 13th January 1899, when I proceeded on furlough, handing over charge to Lieutenant-Colonel A. W. F. Street, D. S. O., I.M.S., the Senior Deputy Sanitary Commissioner present. This officer in his tour of inspection visited the following places :—Surat, Ahmedabad, Talegaon, Kurla, Kurvandi, Lánowli, Karli, Pandharpur, Poona, Thána, Dhanora, Modha and Khadakvásla, and when famine relief works were about to be opened in Gujarát he again visited Ahmedabad, Godhra, Broach, Mehmadabad and Punej, during the month of October, and returned to Poona on 3rd November to hand over charge to Lieutenant-Colonel O. H. Channer, M.B., D. P. H., I.M.S., who took charge on 5th November, and continued to act until the end of the year During the whole of December Dr. Channer was engaged in the Gujarát Districts, *viz.*, Ahmedabad, Kaira and Broach, in making all the necessary medical arrangements for the new famine relief works that were being opened.

127. I append a report on the famine work done up to 31st December 1899.

Report on the Medical Administration of Relief Works during the portion of the year under report when the Bombay Presidency was affected by Famine.

128. On the 31st of July of the year under report, the monsoon current was reported, by the Meteorological Reporter for Western India, to be very weak in the Bay of Bengal, and to be becoming weaker day by day in the Arabian Sea, instead of showing any signs of improvement there. There was no monsoon on the Malabár Coast, and only a slight gradient on the West Coast. The skies were becoming more or less clear, and the winds variable in direction. Under such circumstances the prospects of rain were poor, and great anxiety arose throughout the Presidency, especially in Khándesh, Gujarát and Sholápur. On the 31st of August there was no monsoon on the Malabár Coast, while between Bombay and Kárwár the gradient was only about half of the normal. From the following tabular statement comparing the rainfall between the 1st of June and that date at Sholápur, Khándesh, Broach, Ahmedabad and Káthiáwár, with the average rainfall for that period and the total average annual rainfall, it will be seen that the rains had completely failed in those districts. All crops, especially food-grains, were suffering from the continued drought and some had been irretrievably ruined :—

Provinces or Districts.	Stations.	Rainfall			
		From 1st June 1899 to 31st August 1899.	Average.		
			From 1st June to 31st August.	Annual.	
		In. cents.	In. cents.	In. cents.	
Khándesh	Dhulia	6 28	14 12	22 47	
	Jalgaon	6 75	24 44	33 42	
Broach	Broach	9 25	30 11	38 51	
Ahmedabad and Káthiáwár	Viramgám	3 93	25 15	30 95	
	Wadhwán	3 06	13 45	18 14	
	Dholera	8 74	22 48	30 46	
	Bhávnagar...	6 02	17 10	22 58	
Sholápur	Bársi	6 19	17 14	35 90	
	Sholápur	3 09	14 92	29 62	

129. Widespread scarcity being, therefore, threatened, and Government having issued certain Resolutions in July and early in September in connection with it, Lieutenant-Colonel Street, I. M. S., Acting Sanitary Commissioner, lost

no time in placing himself in personal communication with the Commissioners of the several divisions while they were all in Poona, and especially with the Commissioner of the Northern Division, in order to be prepared to carry out such famine duties as pertained to his office as soon as occasion should arise.

130. From reports of the Commissioners it became evident, in about the first week of September, that in many parts of the Presidency the condition of agricultural labourers had become precarious. Test works were accordingly opened in the Kaira, Ahmedabad and Panch Mahâls Districts at once. On or about the 10th of September four test works were started in the Belgaum District, the Collector of Dhárwár was reported to have taken steps to open test works in his district, and about this time the Commissioner of the Southern Division reported that large numbers of people were leaving the Ratnágiri District for Bombay. The Commissioner of the Central Division reported that he was arranging for the drawing up of a programme to determine, if the late rains should fail, when and where large central works should be opened, proposing, meanwhile, to treat, as test works, small projects entered in the current year's Provincial Budget in any case where Local Fund works were not available for the purpose. Very soon after, test works were started in the Ahmednagar and Sholápur Districts.

131. It was, before long, manifest from the numbers of people willing to accept famine wages on the test works, that famine works would have to be started on a large scale. On receipt of a report that this was about to be done in Ahmedabad, Lieutenant-Colonel Street immediately went to Gujarát and took all the necessary steps to make the medical and sanitary arrangements for the camps, following the lines detailed in Section X of the Thirty-fourth Annual Report of the Sanitary Commissioner for the Government of Bombay, 1897. He then placed these camps in charge of the Deputy Sanitary Commissioner, Gujarát Registration District.

132. By Government Resolution No. 6534 (Famine), dated the 18th September 1899, the recommendations in paragraphs 429—460 of the report of the Famine Commission of 1898 were provisionally adopted, with the modifications—

(1) that the wage of Class I should be 19 chataks;

(2) that the wage of Class III—working children—should be 12 chataks, and that they should be subject to fine; and

(3) that the minimum wage for adults in Class IV should be 13 chataks.

Other amendments to the Bombay Famine Code had reference to the points on which statistical information should be recorded, a revision of existing forms being directed in accordance with the recommendations of the Commission, due regard being had to the proposals of the Special Committee appointed to report thereon.

133. On the 16th of September Lieutenant-Colonel Street applied to Government to revive certain Government Resolutions published in 1896 and 1897 relating to expenditure in connection with, and arrangements for, the management of hospitals attached to large relief works, and to the appointment of District Medical Officers and their establishments, &c.

134. Government, however, ruled that all applications for funds required by the Sanitary Commissioner for the purposes indicated should be submitted to Government through the Public Works Department, and that he should apply for the requisite sanction regarding the appointment of District Medical Officers, when necessary, following, in his proposals, the precedents created in 1896-97.

135. New works were opened during the first half of October at Kaira, Khándesh, Thána, and Thar and Párkar in Sind.

136. Lieutenant-Colonel Street continued, as new works were opened in Gujarát, to make all the necessary medical and sanitary arrangements, he systematically visiting in the Ahmedabad and Kaira Districts, and the Deputy Sanitary Commissioner, Gujarát Registration District, in the Panch Mahâls and Broach Districts.

137. On the 16th of October he reported to Government that, in his opinion, the time had come for the appointment of District Medical Officers under Section 24 (*b*) and Section 48 (*a*), Famine Code, in the Ahmedabad, Kaira, Panch Mahâls and Broach Districts. His representation led to the issue of Govern-

ment Resolution No. 7690 (Famine), dated 28th October 1899, sanctioning the appointment of three District Medical Officers—one for Ahmedabad, one for West Kaira and Broach, and one for East Kaira and Panch Maháls, the Railway being the dividing line between East and West Kaira.

138. The first two District Medical Officers, *viz.*, Captain W. G. Richards, I. M. S., for Ahmedabad and Captain G. O. F. Sealy, I. M. S., for Kaira and Panch Maháls, were appointed on the 30th of October.

139. By Government Resolution No. 7797 (Fam.), dated 2nd November 1899, the Collector of Ahmedabad was requested to furnish to Government, through the Commissioner of the Northern Division and the Sanitary Commissioner, a detailed report of the doubtful cases of deaths from starvation mentioned in the remarks accompanying Statement E, for his district, and the Sanitary Commissioner was requested to show, in future mortality returns, the estimated plague mortality in districts where plague was severe, and deducting it from the total mortality, the net estimated mortality due to other causes than plague.

140. On the 4th November, Lieutenant-Colonel Street reported to Government that he had visited the relief works in the Ahmedabad and Kaira Districts and in the táluka of Jalgaon in Khándesh, and that the condition of the people was generally satisfactory and their health fair, as was also the state of things in the Panch Maháls, the camps of which district had been visited by the Deputy Sanitary Commissioner, Gujarát Registration District, who, moreover, reported that he did not observe any signs of distress among the people in several villages which he had inspected. Lieutenant-Colonel Street referring to four cases (with two deaths) of suspicious fever in the Chandola Relief Camp gave it as his opinion that they were not cases of famine fever.

141. Lieutenant-Colonel Street, D. S. O., I.M.S., was relieved by Lieutenant-Colonel O. H. Channer, D.P.H., I. M. S., who took over charge of the duties of Sanitary Commissioner on the 6th November 1899.

142. By Government Resolution No. 8062 (Fam.), dated the 13th November 1899, the opinions of the Commissioner in Sind, the Commissioners of Divisions, and the Sanitary Commissioner were called for on the points mentioned in a circular letter from the Government of India having reference as to whether any definition of *starvation deaths*, or any distinction between *starvation* and *privation* deaths could be suggested which could be prescribed for practical adoption, and to meet the request made in 1892 by Her Majesty's Secretary of State for India that all deaths from *starvation* should be entered in returns, difficulty having been experienced in the last famine in distinguishing between actual deaths from *starvation*, and deaths from disease accelerated by *privation*.

143. During November more test and relief works were opened in the Nagar, Sholápur, Khándesh, Poona, and Belgaum Districts, and proposals were made to start works in the Bijápur District.

144. By Government Resolution No. 8703 (Fam.), dated the 5th December 1899, the Sanitary Commissioner was requested to submit regularly, to Government, weekly reports regarding the condition of people on relief works, and of inhabitants of affected villages. Also to direct that District Medical Officers should make rapid tours through their respective districts, submitting fortnightly reports on the condition of people visited by them in villages and camps, and that they should endeavour to visit, in the course of their tours, some of the remoter villages, as well as those in proximity to the general lines of communication.

145. Captain F. D. Browne, I. M. S. was appointed as District Medical Officer for the district of Ahmednagar on the 16th of December.

146. Up to the end of the year, thirty-six Assistant Surgeons and Hospital Assistants were employed on famine duty and a detailed list of them is appended. More could have been advantageously employed had any been available. Besides these, a number of dispensary medical officers attended famine camps in addition to their own duties, and a list of them is also appended.

147. Owing to the small number of District Medical Officers, and the heavy organizing work thrown upon the Deputy Sanitary Commissioners of the different

districts, it was not possible, before the end of the year, to conduct observations sufficiently exhaustive to warrant the deduction of any conclusions as to the value of the measures adopted. In many parts, moreover, famine had only just commenced before the end of the year. Observations, however, conducted since that date, and experience gained will doubtless afford many indications for the adoption of measures which will enhance the value of that most important branch of famine administration, its Medical Department.

148. Plague, as in the last famine, was practically non-existent in the open well ventilated camps, and among people leading an out-of-doors life. There were no admissions from cholera during the year into any of the famine relief camp hospitals, and only twenty-one cases of small-pox, nineteen of which were in the hospitals in the Khándesh Collectorate, one in the Ahmednagar, and one in the Kaira Collectorate.

149. Tables are appended at the end of this Section showing the average daily numbers relieved, the average price of the principal food-grains, and the amount of sickness and mortality in hospitals as near the end of each month as possible. The births and deaths by calendar months and the percentages are also supplied, as well as (immediately below) a table showing the total number of deaths by causes for the years 1895, 1896, 1897, 1898, and 1899 and the death rates for 1896, 1897, 1898, and 1899 with a previous five years' mean.

Table comparing deaths from various causes during the years 1895, 1896, 1897, 1898, and 1899, at Khándesh, Ahmedabad, Kaira, Panch Mahals, Broach, Surat, Ahmednagar, Sholápur, Násik and Poona.

	Khándesh.					Ahmedabad.					Kaira.				
	1895.	1896.	1897.	1898.	1899.	1895.	1896.	1897.	1898.	1899.	1895.	1896.	1897.	1898.	1899.
Cholera	1,002	1,740	3,351	...	...	212	1,549	...	1	...	143	807	10	...	...
Small-pox	506	1,373	1,136	618	36	72	293	40	7	...	6	262	12	1	...
Fevers	39,998	43,271	43,137	17,234	22,731	21,926	26,344	20,077	18,662	20,086	18,961	26,324	19,330	15,059	6,759
Dysentery and Diarrhœa ...	4,517	4,833	7,736	8,594	13,770	248	421	345	391	798	126	167	244	147	1,516
Injuries	372	345	449	400	373	308	255	256	272	321	392	326	379	301	535
Other causes	4,151	5,386	6,701	14,645	21,298	3,477	4,098	5,920	5,099	8,741	3,842	5,025	5,005	8,931	23,714
Total ...	50,546	56,948	62,510	41,491	58,208	26,243	32,960	26,668	25,332	29,946	23,473	32,911	25,580	24,439	32,524
Death-rate per 1,000 for 5 years 1891-1895.	33·80					35·94					36 07				
Death-rate for 1896	39·00					35·78					37·76				
Do. 1897	42·81					28·95					29·35				
Do. 1898	28·41					27·51					28·04				
Do. 1899	39·86					32·52					37·32				

	Panch Mahals.					Broach.					Surat.					Ahmednagar.				
	1895.	1896.	1897.	1898.	1899.	1895.	1896.	1897.	1898.	1899.	1895.	1896.	1897.	1898.	1899.	1895.	1896.	1897.	1898.	1899.
Cholera	102	342	7	...	...	1	677	10	...	...	5	1,142	123	...	...	874	2,892	3,700	2	1
Small-pox	...	275	9	1	9	7	129	384	...	...	61	514	59	1	...	25	50	175	140	53
Fevers	6,000	2,687	6,179	7,684	7,419	8,143	11,346	9,159	9,588	9,293	15,225	18,433	15,650	10,403	13,242	25,135	19,175	17,173	4,191	7,978
Dysentery and Diarrhœa ...	15	34	21	26	101	37	72	97	205	478	118	145	464	631	786	3,026	2,787	6,892	4,179	4,081
Injuries	123	82	134	104	158	114	130	149	142	155	190	248	293	295	215	163	204	238	217	231
Other causes	161	241	266	855	1,304	1,064	1,298	2,025	3,081	5,780	2,197	2,213	8,681	9,090	11,027	5,486	7,172	11,215	10,572	17,054
Total ...	6,401	9,661	6,616	8,670	8,991	9,366	13,652	11,824	13,016	15,706	17,796	22,695	25,270	20,424	25,269	34,709	32,280	39,393	19,301	29,348
Death-rate per 1,000 for 5 years 1891-1895.	24·87					39·79					32·95					36 28				
Death-rate for 1896	30·82					39·98					34·92					36·36				
Do. 1897	21·11					34·63					38·88					45·37				
Do. 1898	27·66					38·12					31·42					21·74				
Do. 1899	28·69					46·00					38·88					33 06				

	Sholápur.					Násik.					Poona.				
	1895.	1896.	1897.	1898.	1899.	1895.	1896.	1897.	1898.	1899.	1895.	1896.	1897.	1898.	1899.
Cholera	1,137	980	4,262	3	1	699	1,136	3,410	...	6	458	6,340	9,138	1	2
Small-pox	27	8	181	157	76	309	687	188	189	22	116	137	143	76	67
Fevers	23,071	15,803	18,771	7,245	12,678	21,799	25,508	26,853	11,551	20,645	24,726	23,526	34,205	14,979	37,067
Dysentery and Diarrhœa ...	3,254	1,769	9,167	4,905	7,201	3,062	3,981	7,841	5,321	6,259	3,117	2,851	10,297	4,104	8,060
Injuries	169	193	235	283	246	183	198	246	234	228	329	276	259	243	255
Other causes	2,101	2,133	5,566	3,266	3,875	5,239	5,297	8,262	9,556	14,572	7,501	4,033	6,412	4,825	7,266
Total ...	29,759	20,886	38,182	15,864	24,077	31,291	36,807	46,800	26,851	41,732	36,247	37,163	60,454	24,228	52,717
Death-rate per 1,000 for 5 years, 1891—95.	32·93					35·68					31·16				
Death-rate for 1896	27·83					43·76					35·01				
Do. 1897	50·89					55·64					56·95				
Do. 1898	21·14					31·92					22·82				
Do. 1899	32·09					49·62					49·67				

150. A brief review of each affected district is given below up to the end of the year from the 1st of September.

Khándesh.—Test works were opened in this district in September and freely resorted to. Early in October some of the test works were converted into regular famine relief works. These were visited by Lieutenant-Colonel Street, who organized all the medical and sanitary measures. The price of jowári and bájri in October averaged from 14 to 18 lbs. per rupee against 52 and 44 lbs. for these grains respectively in October 1895. There were 303 admissions into famine relief camp hospitals and 30 deaths. Among those admitted, there were 19 cases of small-pox, but none of cholera or plague. Besides the in-patients, 1,303 out-patients were treated. At the close of the year there were 19 relief works. The average daily number of *workers* during the week ending the 30th of December, was 164,090; of *dependants* 11,114; and of those in receipt of gratuitous relief 198 (in 4 villages).

Ahmedabad.—Test works were opened early in September and rapidly extended, many being soon converted into regular famine relief works. Lieutenant-Colonel Street and after him Lieutenant-Colonel Channer, I. M. S. (who succeeded him as Acting Sanitary Commissioner in November), spent much time in organizing the necessary medical and sanitary arrangements, and in travelling about and supervising the work of the Medical Officers. No sowing operations could be carried out, except where well irrigation was possible. The condition of the cattle was very bad, large numbers being sent to grazing grounds and over 2,000 being in cattle relief camps in December. Between July and December the price of jowári ranged from 17 to $18\frac{1}{8}$ lbs. for the rupee and that of bájri from $15\frac{13}{15}$ to $16\frac{3}{4}$ lbs. As many as 2,220 were admitted into hospitals, of whom 562 died. There was no cholera, plague or small-pox, but dysentery accounted for 578 admissions, diarrhœa for 383 and fever for 678. Besides the in-patients, 4,508 out-patients were treated. At the close of the year there were 12 relief works and 2 test works. The average daily number of *workers* during the week ending the 30th of December was 37,383; of *dependants* 8,980; and of those in receipt of gratuitous relief 4,150 (in 308 villages), and 3,670 (in poor-houses).

Kaira.—Works were opened in this district also early in September. Water in the tanks was rapidly drying up, and the supply of fodder was being rapidly exhausted, and large numbers of cattle were dying. During the week ending the 9th of September the average daily numbers on works had risen to 3,649. Between July and December the price of jowári ranged from $16\frac{1}{4}$ to $18\frac{1}{3}$ lbs. per rupee and that of bájri from $14\frac{1}{2}$ to $16\frac{5}{14}$ lbs. There were 836 admissions into hospital and 128 deaths. There was no cholera or plague, but one case of small-pox. Ninety-three admissions were due to dysentery, 189

to diarrhœa, 149 to fevers and 267 to emaciation. Besides the in-patients, 1,065 out-patients were treated. A District Medical Officer was appointed on the 30th of October. At the close of the year there were 7 relief works. The average daily number of *workers* during the week ending the 30th of December, was 11,807; of *dependants* 1,865; and of those in receipt of gratuitous relief 1,053 (in 242 villages), and 853 (in poor-houses).

Panch Mahâls.—Works were started early in September and on the 2nd there were over 800 people being relieved. The want of rain was felt at a very early date, and fodder became very scarce. This affected the cattle seriously and many died. Sowing operations were attempted where well irrigation was possible, but towards the end of November hope was given up of obtaining any rabi crop. During the famine months the price of maize ranged from 16 to 18⅔ lbs. per rupee and that of bájri from 14 to 16½ lbs. There were 60 admissions into relief camp hospitals and 5 deaths. None of these admissions were due to cholera, plague or small-pox. Besides the in-patients, 165 out-patients were treated. The medical arrangements were at first in the charge of the Deputy Sanitary Commissioner, Gujarát Registration District, but a District Medical Officer was appointed on the 30th of October. At the close of the year there were 5 relief works. The average daily number of *workers* during the week ending the 30th of December was 13,361; of *dependants* 2,209; and of those in receipt of gratuitous relief 95 (in 14 villages).

Broach.—Test works were opened in September, and being freely attended, soon developed into regular famine relief works, and for the week ending the 30th September the average daily number being relieved exceeded 2,000. During October the supply of grain was insufficient, fodder was being largely grown by well irrigation, and wells were being dug freely. About the middle of that month the standing cotton crop was estimated to be 10 annas in Anklesvar, 8 annas in Broach, and insignificant elsewhere. At Jambusar it was being used for fodder. The jowári crop was estimated to be 4 annas in Anklesvar and elsewhere practically *nil*. In November large numbers of cattle were sent to graze in the Thána forest land. The numbers on relief works continued to increase, and in December poor-houses were opened, first at Vágra, Broach and Anklesvar, and soon after in all the tálukas. The average daily number on relief during the week ending the 16th December exceed 4,000. Between July and December the price of jowári remained fairly stationary at between 17 and 18 lbs. per rupee and of bájri between 15⅙ and 16⅔ lbs. There were 87 admissions into relief camp hospitals and 12 deaths. Thirty-five of the admissions were cases of child-birth. Besides the in-patients there were 1,959 out-patients treated. No epidemic disease. At the close of the year there were 14 relief works. The average daily number of *workers* during the week ending the 30th of December was 64,070; of *dependants* 9,089; and of those in receipt of gratuitous relief 3,953 (in 401 villages), and 390 (in poor-houses).

Surat.—About the first week of October, rain was beginning to be urgently needed to save some of the crops. There was, however, no hope of saving any of the fodder crops, and the price of grass was so high that many of the cattle were sent to graze in the Dang country. The labouring classes finding but little to do in the fields were maintaining themselves chiefly by selling fuel and grass-cutting. A test work was opened at Dehan towards the end of October, and during the week ending 2nd December a daily average of 7,990 people were on relief. More test works followed soon after in Olpád and Mándvi and were freely resorted to. No admissions into any hospital were reported before the end of the year among those on relief. The price of food-grains rose in October slightly, and remained more or less stationary till the end of the year, up to which time also the condition of the people, excepting those in the Olpád and Mándvi tálukas, was fair. At the close of the year, there were two relief works. The average daily number of *workers* during the week ending the 30th of December was 5,299; there were no *dependants* and none in receipt of gratuitous relief.

Thána.—In December the condition of cultivators and cattle was satisfactory, and there was, for the time, sufficient employment for agricultural

labourers and wild tribes. People from above the Ghauts were, however, coming into Shâháda, Mokháda and Kalyán in search of work. Beggars also and other immigrants from Gujarát and Káthiáwár were flocking into Kalyán, Bhiwndi and other parts. The numbers on Local Fund works at Dáhánu and Umbargaon were increasing and it was proposed to convert these into famine test works in the following month.

Ahmednagar.—Test works were started in September in this district and freely resorted to, there being about 1,900 average daily workers during the week ending the 7th October. Two hundred people from Native States had come on to the test work in Nevása and later on 500 more came. About the middle of October, the condition of agricultural labourers was reported to be deteriorating, and that of weavers to be getting bad. During the last week in October about 7,000 persons were on test works, and the condition of labourers and weavers was getting worse. Early in November, more test works were opened and later on in the month some test works were converted into regular famine relief works. About the middle of December, there were six relief works, and eight test works, and during the week ending 16th December an average daily number of over 18,000 on relief. A District Medical Officer was appointed on the 16th of December. The price of jowári in November and December ranged from $16\frac{3}{8}$ to $17\frac{1}{7}$ lbs. per rupee, and of bájri $16\frac{2}{9}$ to $16\frac{1}{3}$ lbs. Only 16 admissions and one death were reported in Famine Relief Camp Hospitals during the year. One of these was a case of small-pox, but none were due to cholera or plague. Besides the in-patients, 159 out-patients were treated. At the close of the year, there were 10 relief works and 4 test works. The average daily number of *workers* during the week ending the 30th of December was 53,505; of *dependants* 7,945; and of those in receipt of gratuitous relief 1,371 (in 549 villages).

Sholápur.—Early in October, the price of food-grains rose generally throughout the district on acconnt of extensive exports of grain to Gujarát and Káthiáwár. This caused much distress among the poorer classes, and crowds of beggars flocked into Sholápur City some of whom (chiefly lepers, and the blind and infirm) were admitted to gratuitous relief to prevent actual starvation. About the middle of October, the local demand for labour was insufficient to meet requirements, and 958 persons in Sholápur City were getting gratuitous relief, 959 in Sángola táluka, and 49 in Málsiras táluka. A test work had been opened on the 10th, and workers joined on the 14th. Other test works were opened in Sángola and Bársi tálukas soon after and were freely resorted to. More test works were started in November, and during the week ending the 2nd December nearly 15,000 people were being relieved. Towards the end of December there was a daily average of nearly 60,000, and many of the test works were converted into regular famine relief works. During the famine months, the price of jowári ranged between $17\frac{17}{20}$ and $22\frac{3}{8}$ lbs. per rupee, while bájri remained stationary at about $18\frac{4}{5}$ lbs. Only two admissions into Relief Camp Hospitals were reported during the year, late in December. At the close of the year there were 14 relief works. The daily average number of *workers* during the week ending 30th of December was 64,678, of *dependants* 22,552, and of those in receipt of gratuitous relief 5,070 (in 376 villages).

Násik.—Early in October, the want of rain commenced to be felt and crops were withering. Cattle in the plains commenced to suffer from scarcity of water and fodder. The condition of cultivators was middling, of labourers bad, and of artizans fair. Two test works had been started and two more followed, and during the week ending the 4th of November over 2,000 people were on relief. During November another test work was opened and freely resorted to. In December, many of the test works were converted into relief works, and the numbers of workers rose. In November and December, the price of jowári ranged from $16\frac{3}{8}$ to $18\frac{3}{8}$ lbs. per rupee, and of bájri from $16\frac{1}{2}$ to 17 lbs. No admissions into hospitals were reported among those on relief during the year. At the close of the year there were two relief and five test works. The average daily number of *workers* during the week ending the 30th of December was 19,401; of *dependants* 2,883; and of those in receipt of gratuitous relief 218 (in 93 villages).

Poona.—In September jowári was $23\frac{1}{2}$ per rupee and bájri $21\frac{3}{16}$ lbs. Jowári remained stationary in October, but bájri became dearer and early in that month distress commenced among low caste people and low paid village servants

Labourers and agriculturists soon commenced to feel distressed also; on account of high prices and their coming to a standstill of agricultural operations in consequence of want of rain. So far no noticeable change was observed among hill tribes who were engaged in the collection of hirdas. Test works were started, and during the last week of October over 1,000 workers had resorted to them. In November more test works were successfully started, and towards the end of that month one relief work as well. There was no marked deterioration in the condition of the people, but lack of employment drove them to the works. The condition of weavers, artizans, and hill-tribes remained satisfactory throughout December. No admissions into hospitals were reported before the end of the year among workers. The daily average number of persons on works during the week ending the 30th of December was 12,185, and of those in receipt of gratuitous relief 1,302 (in 518 villages).

Sátára.—In September 2 test works were started in this district, the prices of food having risen in several tálukas, and distress being felt by the poorer classes, especially at Khánápur, Khatáv and Khándála. Soon after 5 other test works were started, and the daily average number on relief was, during the week ending 21st of October, nearly 2,000. The numbers gradually rose, but up to the end of the year no regular famine relief works were started. During the week ending the 30th of December there were 4 test works, the average daily number on these works was 12,482, and there were 206 *dependants*.

Bijápur.—Early in October the poorer classes suffered from the rise in prices of food-grains in consequence of extensive export of grain into Gujarát, and one test work was opened. The numbers of workers slowly rose, and more test works were open, but up to the end of the year it was not found necessary to open any regular famine relief works. During the week ending the 30th of December there were 3 test works and an average daily number of 3,861 *workers*.

Belgaum.—At the close of the year there were 3 test works in this district, with an average daily number, during the week ending the 30th of December, of 1,694 *workers*.

Dhárwár.—At the close of the year there were 2 test works in this district, with an average daily number, during the week ending the 30th of December, of 199 *workers*.

List of District Medical Officers on Famine Relief duty.

Names.	District.	From	To
Captain G. O. F. Sealy, I. M. S.	Kaira and Panch Mahals.	30th October 1899.	31st December 1899.
Captain W. G. Richards, I. M. S.	Ahmedabad ...	30th October 1899.	Do.
Captain F. D. Browne, I. M. S.	Ahmednagar ...	16th December 1899.	Do.

List showing the names of Assistant Surgeons and Hospital Assistants in Government employ and temporarily employed on Famine duty.

No.	Names.	Districts.	Hospitals in charge.
	Assistant Surgeon, Temporary.		
1	A. S. Tilbury	Panch Mahals.	Ambalal.
	Hospital Assistant in Government employ (Civil).		
1	Ganpat Mangesh		Surajpur.
2	Damodar Ramchandra		Dohad-Alirajpur road.
	Hospital Assistant in Temporary employ.		
1	Chandulal Beharilal		Morwa.

No.	Names.	District.	Hospital in charge.
	Hospital Assistant in Government employ (Civil).		
1	Chunilal P. Patel	Kaira	Páli.
2	Ambalal Chunilal		Mehmadabad.
	Hospital Assistant in Temporary employ.		
1	Nanalal Nagindas		Nándoli.
2	Maganlal Motilal Shah...		Agas Borsad road.
3	Damoder Kesheo		Shastápur.
4	Bhagwant Gopal		Ladvel road.
	Hospital Assistant in Government employ (Civil).		
1	Damoder Pandurang	Broach	Asha Tank.
2	Balwant Krishna		Sarbhan Tank.
3	Vithal Apaji		Puneshwar Tank.
	Hospital Assistant in Government employ (Civil).		
1	Ganesh Trimbak	Surat ...	Excavation of Gam Tank, Karanj.
	Hospital Assistant in Government employ (Civil).		
1	B. M. Shah	Ahmedabad.	Chandola Tank.
2	Ramchandra Bhagvant		Malikshwaban.
3	Raghunath Vithal		Vadgaon.
4	Shankerlal Nanalal		Pannar Dadeason work.
5	Sayad Hanifoddin		Khorad tank.
6	Laxuman Sakharam		Sonaria Tank excavation and Poor-house, Gogha.
	Hospital Assistant in Temporary employ.		
1	Bhargao Balkrishna		Luni Bridge.
	Hospital Assistant in Government employ (Civil).		
1	Malhar Sitaram	Khándesh.	Jalgaon Water-works.
2	Vyankatrao Anant		Dangurra.
3	G. K. Abhyankar		Morána R. Work.
4	M. S. Burvey		Taloda-Nandurbár road.
	Hospital Assistant in Temporary employ.		
1	Narayan Vithoji		Bodwad Jámner.
2	Sitaram Balwant		Vanjari.
3	Sakharam Narayan		Sangwi.
4	Ibrahim valad Amin		Jalgaon Dharangaon.
5	Narayan Pandurang		Sarwa.
	Hospital Assistant in Government employ (Civil).		
1	Buslingappa Bhimappa	Ahmednagar.	Kápurwádi Tank.
2	Vishnu Narayen		Maládevi Tank.
3	Anant Krishna		Nagar Toka R. Work.
4	Balkrishna Rajana		Visápur Tank.
	Hospital Assistant in Government employ (Civil).		
1	Govind Keshav	Sholápur.	Hotgi Tank.
2	Shanker Ranoji Jadhav		Mangi Tank.

List of Dispensary Medical Officers who visited Poor-houses in addition to their own Dispensary work.

No.	Name of Officer.	In charge Dispensary.	Camps visited.
	Kaira.		
1	Narsappa Errappa	Mehmadabad.	Mehmadabad Poor-house.
2	M. Prasad	A'nand ...	A'nand Poor-house.
3	Shankar Hari	Kapadvanj ...	Kapadvanj Poor-house.
4	Ramkrishna	Borsad ...	Borsad Poor-house.
	Ahmedabad.		
1	Shivaram Narayan	Dholka ...	Dholka Poor-house.
2	Chintaman Yadav Vaidya	Parántij ...	Parántij Poor-house.
3	Hari Krishna Rayaker	Viramgám...	Viramgám Poor-house.
4	Poputlal Lallubhai	Sánand ...	Sánand Poor-house.
5	Burjorji Byramji (attached to the Civil Hospital, Ahmedabad)	Ahmedabad .	Ahmedabad Poor-house.
6	Jeysing Nagindas Shah	Ránpur ...	Ránpur Poor-house.
7	Laxuman Sakharam	Gogha ...	Gogha Poor-house.
8	Narayan Laxuman	Modása ...	Modása Poor-house.

J. W. CLARKSON, LIEUT.-COL., I.M.S.,
Sanitary Commissioner.

Bombay, 26th September 1900.

Khándesh Collectorate—Population 1,460,319.

Months.	Average daily numbers relieved.	Average price in lbs. per Rupee.		Sick in Hospitals.	Deaths in Hospitals.	Births.	Deaths from							Death rate per 1,000.	Average death rate for previous 10 years.	Deaths under 5 years.	Deaths 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fever.	Dysentery and diarrhœa.	Injuries.	Other causes.	Total.					
September 1899...	8,389	15 to 21	15 to 23	...	...	5,989	...	...	1,366 **47**	1,229	37	999	3,631	2·50	3·60	2,042	1,589	
October „ ...	32,941	14 to 18	14 to 18	...	...	5,990	...	...	1,490 **5**	1,189	27	946	3,653	2·50	2·75	1,976	1,677	
November „ ...	109,992	15 to 19	14 to 18	41	15	5,552	...	1	2,011	1,123	28	988	4,151	2·84	2·67	1,923	2,228	
December „ ...	196,797	15 to 19	16 to 20	303	30	5,334	...	4	2,559	1,402	37	1,314	5,316	3·64	2·63	2,449	2,867	
Price of food-grains in October 1895.	...	52	44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N. B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement showing Admissions and Deaths in the several Famine Relief Camp Hospitals in Khándesh Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera	...	...	...	...	.....	Details not available.	.....	.....	.....	Details for November not available.	
Dysentery	...	...	...	...	.....		8	3	8		
Diarrhœa	...	...	...	...	1		36	9	37		
Fever	...	...	...	...	.....		51	5	51		
Small-pox	...	...	...	...	11		8	1	19		
Itch	...	...	...	...	.....		.....	.....	.....		
Ulcer	...	...	...	...	.....		8	.....	8		
Emaciation	...	...	...	...	.....		5	3	5		
Child-birth	...	...	...	...	.....		65	.....	65		
Pregnant woman ...	...	...	...	...	9		15	.....	24		
Miscellaneous ...	...	...	...	...	20		107	9	129		
Total ...	...	...	...	...	41	15	303	30	344	45	

Ahmedabad Collectorate—Population 920,928.

Months.	Average daily numbers relieved.	Average price in lbs. per rupee of		Sick in Hospitals.	Deaths in Hospitals.	Births.	Deaths from							Death-rate per 1,000.	Average death-rate for previous 10 years.	Deaths under 5 years.	Deaths 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fever.	Dysentery and diarrhœa.	Injuries.	Other causes.	Total.					
September 1899 ...	9,237	17	15 1/8	...	...	3,200	...	...	1,054 9	40	38	480	1,612	1·75	2·89	628	984	
October „ ...	10,162	17 4/16	15 29/30	94	11	3,024	...	...	1,588 11	60	37	696	2,381	2·59	3·24	831	1,550	
November „ ...	17,368	17 6/7	16 1/8	241	41	2,865	...	...	2,230 20	126	33	839	3,228	3·50	3·67	993	2,235	
December „ ...	38,391	18 1/8	16 3/4	2,220	562	2,781	...	...	2,974 1	305	25	1,412	4,716	5·12	3·76	1,472	3,244	
Price of food-grains in October 1895.	...	36	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N.B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement showing Admissions and Discharges in the various Famine Relief Camp Hospitals in Ahmedabad Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera	...	...	...	...	.....	.....	.....	.....	.....	.....	
Dysentery	...	...	11	...	73	.....	494	132	578	.....	
Diarrhœa...	...	...	13	...	31	.....	339	147	383	.....	
Fever	...	...	22	...	60	.....	596	107	678	.....	
Small-pox	...	...	...	...	.....	.....	.....	.....	.....	.....	
Itch	...	...	...	...	.....	.....	1	.....	1	.....	
Ulcer	...	...	3	...	2	.....	58	2	63	.....	
Emaciation	...	...	1	...	9	.....	100	35	119	.....	
Child-birth	...	...	10	...	16	.....	67	.....	93	.....	
Pregnancy	...	...	2	...	5	.....	18	.....	25	.....	
Miscellaneous	...	...	32	...	45	.....	538	130	615	.....	
Total ...	..	...	94	...	241	.....	2,220	562	2,555	.....	

Kaira Collectorate—Population 871,529.

Months.	Average daily number relieved.	Average price in lbs. per rupee of: Jowári.	Bájri.	Sick in Hospitals.	Deaths in Hospitals.	Births.	Deaths from: Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other causes.	Total.	Death-rate per 1,000.	Average death-rate in previous 10 years.	Deaths under 5 years.	Deaths, 5 years and upwards	Remarks.
September 1899 ...	8,247	16¼	14½	...	...	3,257	...	...	346 **107**	102	67	1,509	2,024	2·33	2·86	904	1,120	
October „ ...	7,038	16 13/14	14 13/14	...	...	3,091	...	...	403 **37**	134	66	1,866	2,469	2·83	3·23	1,019	1,450	
November „ ...	13,852	17 4/7	16 5/14	132	12	2,794	...	...	709 **2**	195	90	2,317	3,311	3·79	3·35	1,154	2,157	
December „ ...	15,359	18⅓	16 1/7	836	128	2,533	...	...	1281	434	47	3,163	4,925	5·65	2·87	1,473	3,452	
Price of food-grains in October 1895.	...	...	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N.B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement showing Admissions and Deaths in the various Famine Relief Camp Hospitals in Kaira Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera	...	...	...	...	...	...	...	...	...	...	
Dysentery	...	...	...	...	4	...	89	23	93	...	
Diarrhœa	...	...	...	...	16	...	173	52	189	...	
Fever	...	...	...	...	19	...	130	15	149	...	
Small-pox	...	...	...	...	...	...	1	...	1	...	
Itch	...	...	...	...	2	...	5	...	7	...	
Ulcer	...	...	...	...	7	...	25	...	32	...	
Emaciation	...	...	...	...	38	...	229	17	267	...	
Child-birth	...	...	...	...	9	...	26	...	35	...	
Pregnancy	...	...	...	...	...	...	...	...	...	...	
Miscellaneous ...	...	...	...	...	37	...	158	21	195	...	
Total ...	...	...	...	...	132	...	836	128	968	...	

Panch Mahâls Collectorate—Population 313,381.

Months.	Average daily numbers relieved.	Average price in lbs. per rupee of		Sick in Hospital.	Deaths in Hospital.	Births.	Deaths from							Death-rate per 1,000.	Average death-rate for previous 10 years.	Deaths under 5 years.	Deaths, 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other Causes.	Total.					
		(Maize.)																
September 1899 ...	4,794	17	15½	...	...	897	...	...	323 **0**	5	20	71	419	1·34	1·94	152	267	
October „ ...	5,241	16	14⅜	9	...	1,110	...	...	395 **0**	6	16	83	500	1·60	2·16	191	309	
November „ ...	12,564	16⅓	16½	18	...	1,135	...	2	574 **0**	8	12	120	716	2·28	2·65	220	496	
December „ ...	15,137	18⅔	16½	33	5	1,272	...	7	1,186 **0**	48	21	249	1,511	4·82	2·12	432	1,079	
Price of food-grains in October 1895.	...	...	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N. B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement of Admissions and Discharges in the several Famine Relief Camp Hospitals in the Panch Mahâls Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks,
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Dysentery ...	...	...	...	...	.....	.....	5	1	5	1	
Diarrhœa ...	...	...	...	...	.....	.....	7	.....	7	.....	
Fever ...	...	...	...	1	...	4	.....	2	1	7	1	
Small-pox ...	...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Itch ...	...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Ulcer ...	...	...	...	1	...	2	.....	3	1	6	1	
Emaciation ...	...	...	...	...	...	.....	.....	1	.....	1	.....	
Child-birth ...	...	...	...	1	...	3	.....	5	.....	9	.....	
Pregnancy ...	...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Miscellaneous ...	...	...	...	6	...	9	.....	10	2	25	2	
Total ...	...	...	...	9	...	18	.....	33	5	60	5	

Broach Collectorate—Population 341,450.

Months.	Average daily numbers relieved.	Average price in lbs. per rupee of Jowári.	Average price in lbs. per rupee of Bájri.	Sick in Hospital.	Deaths in Hospital.	Births.	Deaths from Cholera.	Deaths from Small-pox.	Deaths from Fever.	Deaths from Dysentery and Diarrhœa.	Deaths from Injuries.	Deaths from Other Causes.	Deaths from Total.	Death-rate per 1,000.	Average death-rate for previous 10 years.	Deaths under 5 years.	Deaths 5 years and upwards.	Remarks.
September 1899 ...	5,279	17½	16⅓	...	...	1,128	...	...	458 **66**	29	13	411	911	2·67	3·07	394	517	
October „ ...	15,704	17	15⅛	...	...	1,127	...	...	495 **15**	30	17	484	1,026	3 00	3·68	444	582	
November „ ...	34,303	17⅓	15⅔	...	...	1,106	...	...	682	65	15	553	1,315	3·86	4·44	466	849	
December „ ...	67,616	17⅔	16½	87	12	1,099	...	...	1,082	164	12	701	1,959	5·74	3·88	657	1,302	
Price of food-grains in October 1895 ...	...	33	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N.B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statements showing Admissions and Deaths in the General Famine Relief Camp Hospitals in Broach Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera	...	...	...	...	.....	.....	.....	.....	.....	.....	
Dysentery	...	...	...	...	.....	.....	3	1	3	1	
Diarrhœa	...	...	...	...	.....	.....	2	1	2	1	
Fever	...	...	...	...	.....	.....	1	.....	1	.....	
Small-pox	...	...	...	...	.....	.....	.....	.....	.....	.....	
Itch	...	...	...	...	.....	.....	.....	.....	.....	.....	
Ulcer	...	...	...	...	.....	.....	1	.....	1	.....	
Emaciation	...	...	...	...	.....	.....	1	1	1	1	
Child-birth	...	...	...	...	.....	.....	35	7	35	7	
Pregnancy	...	...	...	...	.....	.....	29	.....	29	.....	
Miscellaneous ...	...	...	...	...	.....	.....	15	2	15	2	
Total ...	...	...	...	...	.....	.....	87	12	87	12	

Surat Collectorate—Population 648,824.

Months.	Average daily number relieved.	Average price in lbs. per rupee of		Sick in Hospital.	Deaths in Hospital.	Births.	Deaths from							Death-rate per 1,000.	Average death-rate during past 10 years.	Deaths under 5 years.	Deaths 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other causes.	Total.					
September 1899 ...	...	...	...	...	...	1,764	...	...	1,030 **303**	93	31	745	1,899	2·93	2·40	610	1,289	
October „ ...	...	...	...	...	...	1,934	...	...	1,128 **311**	68	20	719	1,935	2·98	2·56	596	1,339	
November „ ...	7,990	19	Rice and wheat. 16 to 20	...	...	1,991	...	...	1,004 **120**	68	24	763	1,859	2·87	2·93	626	1,233	
December „ ...	3,910	18½ to 18 14/17	Rice and wheat. 16 to 20	...	...	2,118	...	...	1,189 **62**	84	13	872	2,158	3·32	2·99	801	1,357	
Price of food-grains in October 1895.	...	29	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N.B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement of Admissions and Discharges in the several Famine Relief Camp Hospitals in Surat Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera											
Dysentery											
Diarrhœa											
Fever											
Small-pox											
Itch											
Ulcer											
Emaciation											
Child-birth											
Pregnancy											
Miscellaneous											
Total											

Ahmednagar Collectorate – Population 887,656.

Months.	Average daily Numbers relieved.	Average price in lbs. per rupee of		Sick in Hospitals.	Deaths in Hospitals.	Births.	Deaths from							Death-rate per 1,000.	Average death-rate for past 10 years.	Deaths under 5 years.	Deaths, 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fevers.	Dysentery and Diarrhœa.	Injuries.	Other causes.	Total.					
September 1899 ...	573	15	15	...	...	3,751	...	...	1,493 **1,173**	343	30	1,570	3,436	3·87	3·58	1,261	2,175	
October „ ...	5,130	16	16	...	...	3,449	...	...	1,172 **839**	317	16	1,363	2,868	3·24	3·08	1,090	1,778	
November „ ...	12,454	16⅜	16⅔	...	...	3,126	...	...	505 **146**	243	25	1,292	2,065	2·33	2·61	901	1,164	
December „ ...	45,404	17⅐	16⅓	16	1	3,146	...	6	509 **51**	297	14	1,721	2,547	2·87	2·23	1,067	1,480	
Price of food-grains in October 1895.	...	55	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N.B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement showing Admissions and Deaths in the several Famine Relief Camp Hospitals in Ahmednagar Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Dysentery	...	...	...	...	.....	.....	1	.....	1	.....	
Diarrhœa ...	...	...	...	...	.....	.....	6	.....	6	.....	
Fever ...	...	...	...	...	.....	.....	4	.....	4	.....	
Small-pox ...	...	...	...	...	.....	.....	1	.....	1	.....	
Itch ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Ulcer ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Emaciation ...	...	...	...	...	.....	.....	1	.....	1	.....	
Child-birth ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Pregnant women	...	...	...	...	.....	.....	.....	.....	.....	.....	
Miscellaneous	...	...	...	...	.....	.....	3	1	3	1	
Total ...	...	...	...	...	.....	.....	16	1	16	1	

Sholápur Collectorate—Population 750,255.

Months.	Average daily numbers relieved.	Average price in lbs. per rupee of		Sick in Hospitals.	Deaths in Hospitals.	Births.	Deaths from							Death-rate per 1,000.	Average death-rate for past 10 years.	Deaths under 5 years.	Deaths, 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other causes.	Total.					
September 1899 ...	...	$22\frac{3}{8}$	...	...	...	3,111	...	1	1,096 **80**	720	16	325	2,158	2·87	3·37	1,128	1,030	
October „ ...	2,798	$22\frac{1}{4}$	...	...	...	2,701	...	1	1,374 **289**	883	27	472	2,757	3·68	2·98	1,250	1,507	
November „ ...	14,638	$17\frac{17}{20}$	...	...	...	2,431	...	4	1,179 **476**	612	19	670	2,484	3·31	2·72	843	1,641	
December „ ...	77,596	$19\frac{7}{20}$	$18\frac{4}{5}$	2	...	2,575	...	12	1,786 **695**	702	9	272	2,781	3·71	2·48	851	1,930	
Price of food-grains in October 1895.	...	60	46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N.B.—The figures in block type show the deaths from plague, They are included in the deaths from fever.

Statement showing Admissions and Deaths in the several Famine Relief Camp Hospitals in Sholápur Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera	...	...	...	...	...	...	...	...	...	...	
Dysentery	...	...	...	...	...	...	...	...	...	...	
Diarrhœa	...	...	...	...	...	...	...	...	...	...	
Fever	...	...	...	...	...	...	...	...	...	...	
Small-pox	...	...	...	...	...	...	...	...	...	...	
Itch	...	...	...	...	...	...	1	...	1	...	
Ulcer	...	...	...	...	...	...	...	...	...	...	
Emaciation	...	...	...	...	...	...	...	...	...	...	
Child-birth	...	...	...	...	...	...	...	...	...	...	
Pregnant women	...	...	...	...	...	...	...	...	...	...	
Miscellaneous	...	...	...	...	...	...	1	...	1	...	
Total ...	...	...	...	...	...	...	2	...	2	...	

Násik Collectorate—Population 841,087.

Months.	Average daily numbers relieved.	Average price in lbs. per rupee of		Sick in Hospitals.	Deaths in Hospitals.	Births.	Deaths from							Death-rate per 1,000.	Average death-rate for previous 10 years.	Deaths under 5 years.	Deaths, 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other causes.	Total.					
September 1899 ...	86	...	...	...	...	3,255	...	...	3,859 **2,976**	629	22	1,249	5,759	6·85	3·54	1,657	4,102	
October „ ...	1,050	...	...	...	...	3,152	...	...	2,370 **1,608**	538	23	1,066	3,997	4·76	3·09	1,305	2,692	
November „ ...	5,618	16⅔	16½	...	...	3,014	...	...	1,122 **155**	528	10	1,003	2,663	3·16	3·25	1,161	1,502	
December „ ...	17,910	18⅔	17	...	...	2,837	...	...	1,066 **27**	450	12	1,187	2,715	3·23	3·10	1,104	1,611	
Price of food-grains in October 1895.	...	...	42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N.B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement showing Admissions and Deaths in the several Famine Relief Camps in Násik Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Dysentery ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Diarrhœa ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Fever ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Small-pox ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Itch ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Ulcer ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Emaciation ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Child-birth ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Pregnant women ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Miscellaneous ...	...	...	...	...	.....	.....	.....	.....	.....	.....	
Total ...	...	...	...	...	.....	.....	.....	.....	.....	.....	

Poona Collectorate—Population 1,061,449.

Months.	Average daily Numbers relieved.	Average price in lbs. per rupee of		Sick in Hospitals.	Deaths in Hospitals.	Births.	Deaths from							Death-rate per 1,000.	Average death-rate for previous 10 years.	Deaths under 5 years.	Deaths, 5 years and upwards.	Remarks.
		Jowári.	Bájri.				Cholera.	Small-pox.	Fever.	Dysentery and Diarrhœa.	Injuries.	Other causes.	Total.					
September 1899 ...	...	23½	21 3/10	...	...	2,967	...	4	6,422 **4,839**	887	18	531	7,862	7·41	3·09	1,653	6,209	
October „ ...	1,015	23½	15 to 20 4/5	...	...	3,178	...	1	4,722 **2,873**	771	21	488	6,003	5·65	2·67	1,704	4,299	
November „ ...	3,017	23	15 to 20	...	...	2,724	...	3	1,818 **882**	532	31	829	3,213	3·02	2·57	928	2,285	
December „ ...	9,687	23	15 to 20	...	...	2,509	...	4	1,139 **233**	501	32	840	2,516	2·37	2·41	812	1,704	
Price of food-grains in October 1895.	...	42	37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N. B.—The figures in block type show the deaths from plague. They are included in the number of deaths from fever.

Statement showing Admissions and Deaths in the several Famine Relief Camp Hospitals in Poona Collectorate.

	September 1899.		October 1899.		November 1899.		December 1899.		Total.		Remarks.
	A.	D.	A.	D.	A.	D.	A.	D.	A.	D.	
Cholera											
Dysentery											
Diarrhœa											
Fever											
Small-pox											
Itch											
Ulcer											
Emaciation											
Child-birth											
Pregnant women											
Miscellaneous											
Total											

APPENDIX I.

ANNUAL REPORT OF THE SANITARY BOARD FOR THE YEAR 1899.

1 *Preliminary.*—Plague and famine have again pressed heavily on Municipalities, and we can only draw attention to paragraph 1 of our report of last year.

2. *Hyderabad.*—The Municipality, owing to dissensions amongst themselves, have been very dilatory in constructing the engine house at the river lift at Giddu, and in erecting the new engines. The necessity for having the latter working before the hot weather has been strongly urged on the President.

The plans and estimates, prepared by the Sanitary Board, for the final completion of the water works, are still under consideration by Government.

3. *Ahmedabad.*—The drainage scheme, prepared by Mr. Baldwin Latham, is still under discussion ; but little progress is likely to be made until a special engineer is put in charge, as the local Executive Engineer's time is so fully occupied.

4. *Kaira.*—At the request of the Collector, the Sanitary Engineer went more fully into the matter referred to in paragraph 6 of last year's report. The details necessary for getting up the project are ready, and will be worked up as soon as the Poona Drainage scheme is disposed of.

5. *Mehmadabad.*—A similar remark applies to this place, *vide* paragraph 7 of last year's report.

6. *Yeola.*—Practically no progress was made with the water works for this town. Up to March 1899 the expenditure was Rs. 56,187, out of the estimated cost of Rs. 1,27,921. It is still under consideration whether the machinery and pipes should be obtained through the Secretary of State, or purchased locally. The work is under the Public Works Department, but the Executive Engineer states that he cannot spare any time for this work.

7. *Ahmednagar.*—The completion of the Kapurwadi tank is now being carried out as a famine relief work. It is hoped that it will be finished before the monsoon, as the wells seem to be all drying up, and the sub-soil water apparently is disappearing altogether from above the rock level. The distribution scheme for the remaining two-thirds of the town, in connection with this tank, will shortly be forwarded to Government; but unless they grant a loan, it will be impossible to carry it out.

8. *Poona.*—The drainage scheme prepared by the Sanitary Engineer, was generally approved of by Government, and by the Municipality; and also by Mr. Santo Crimp, whose presence in Bombay was taken advantage of by the Municipality. On his advice, an effluent farm was finally adopted by the Municipality; and the original scheme is now being altered, by doing away with the Septic tanks at the out-fall, which were necessary if the effluent was to be turned into the river instead of on to a farm. The out-fall can now be lowered some 15 feet, thus extending the gravitation area, and reducing the Shone system area. The sewers will discharge into a balancing tank, capable of holding $7\frac{1}{2}$ per cent. of the day's maximum flow; and it will be pumped thence, by Worthington Triple Expansion Engines, through a 25 inch steel main, for a distance of $6\frac{1}{2}$ miles ; and with a lift, including friction, of 190 feet to the out-fall. There it will be passed through macerating tanks, as at Wimbledon ; and the effluent will be used for crops. The experiments made with fodder crops irrigated with the effluent, showed startlingly successful results, in comparison with heavy dressings (20 tons per acre) of poudrette, and of farm yard manure. The comparative crops of sugarcane on the effluent, and on these manures, will be cut, and the juice tested, about the end of April ; and if this is as successful as the fodder crops, the scheme will practically cost the Municipality nothing, provided the farm is worked intelligently by a trained European, as suggested.

A water-supply scheme for the city is also under preparation by the Sanitary Engineer, in order to provide a sufficient head for the water-closets in

133396

the higher portions of the city, and a better supply and distribution all over the city. Both projects will probably be ready for final discussion in June; but here again, without Government assistance in the shape of a loan, and a favourable rate for the canal water, nothing can be done.

9. *Akálkot.*—The oil engines, which were almost a new departure in this country, have been working so satisfactorily that their extended use for small projects will probably be adopted.

10. Regarding the other towns and projects referred to in last year's report, no progress has been made, and each year only enforces the urgency of the matter referred to in paragraph 19 of last year's report; especially in a year like this, when every Executive Engineer is over-worked, owing to famine relief.

11. *Miscellaneous.*—The Board advised on the proposals for water-supply to the Central Jail at Hyderabad, on the Ahmedabad Sewage Farm and on the water-supply to Government House, Mahábaleshvar. The Sanitary Engineer, in conjunction with the Collector, also reported on the military proposals regarding the sanitation of the Kamatipura section of the Sadar Bazár at Poona. The plan and estimate for the drainage scheme of the Sadar Bazár have been sent to the Military authorities, with a view to its being carried out at the same time as the city scheme.

J. W. CLARKSON, Lt.-Col., I. M. S.,
Sanitary Commissioner for the Government of Bombay.

J. C. POTTINGER, M.I.C.E.,
Sanitary Engineer and Member of the Sanitary Board.

APPENDIX II.

No. 1331 OF 1900.

ANNUAL REPORT OF THE HEALTH OFFICER OF THE PORT OF BOMBAY FOR THE YEAR ENDING 31ST DECEMBER 1899.

I. SUMMARY.

The following table gives a summary of the shipping and health of the Port of Bombay and of the work in connection therewith for the year ending 31st December 1899 :—

Table No. 1.

Vessels including country craft.	Number of vessels inspected.	Number of persons inspected, including crew on vessels.	Number of native crew and 3rd Class or deck passengers disinfected during the period extending from 14th February to 31st December.	Number of vessels disinfected.	Number of persons vaccinated.	Number of persons segregated or rejected.	Diseases and Number of cases of each.						
							Plague.	Cholera.	Small-pox.	Measles.	Scarlatina.	Chicken-pox.	Jigger.
Entered	1,198	76,910	3,485	32	32	238	4	...	1	2	5	7	168
Left	64,594	1,116,429	44,864	...	...	17,424	117	...	...	...	...	...	...
In Harbour during the year ...	30	.....	.....	30	...	...	34	1	1	5	...	...	...
Total ...	65,822	1,193,339	48,349	62	32	17,662	155	1	2	7	5	7	168
1898 ...	71,49	1,207,571	.....	49	150	19,138	118	5	6	4	3	10	

2. The foregoing table shows that 65,822 vessels of all sorts, with 1,193,339 crew and passengers, were examined during the year. The number includes every person who left Bombay by sea during the year, as well as those who arrived from certain infected ports.

3. It further shows that the clothing and bedding of 44,864 native crew and third-class or deck passengers who sailed on vessels for ports out of India were disinfected during the period extending from 14th February to31 December 1899. It also shows that the baggage of 862 returning pilgrims and 2,623 deck passengers who arrived from East African (Jigger infected) ports was disinfected.

4. The total number of plague cases detected during the year 1899 in connection with the shipping was 155 against 118 for the year 1898.

II. INCOMING VESSELS.

5. The following table furnishes further particulars regarding vessels which entered the port during the year 1899 :—

Table No. 2.

Year.	Total number of Steamers and Square-rigged Vessels which entered Bombay Harbour from Ports other than Indian Ports.	Number of Passengers only.	Total number of Native Sailing Craft which entered Bombay Harbour from Ports other than Indian Ports.	Number of Passengers only.	Total number of Steamers and Square-rigged Vessels which entered Bombay Harbour from Indian Ports.	Number of Passengers only.	Total number of Native Sailing Craft which entered Bombay Harbour from Indian Ports.	Number of Passengers only.
a	*b*	*c*	*d*	*e*	*f*	*g*	*h*	*i*
1899 ...	527	25,660	250	484	1,375	309,915	44,267	6,001
1898 ...	557	28,484	281	215	1,542	269,725	40,190	1,986

6. The total number of persons, including crew who arrived by these vessels, cannot be given, as no record is kept of the number of crew on most of the vessels entering the port. Of the 342,060 passengers who are shown in the above table, 10,520 were troops, 862 Mecca pilgrims and the remaining 330,678 principally passengers from ports in close proximity to Bombay.

Table No. 3.

7. The following table gives the number of ships which had infectious disease on board on or before entering the harbour :—

Class of Vessels.	Number of Ships.	Total Number of Crew and Passengers inspected.	Number of Passengers from East Africa disinfected on account of presence of Jigger among them.	Diseases and Number of Cases of each.						Number of Persons Vaccinated.
				Plague.	Small-pox.	Measles.	Scarlatina.	Chicken-pox.	Jigger.	
Troop-ships ...	1	1,313	.....	...	...	...	5	...	...	...
Vessels from Jigger infected Ports	23	4,633	2,623	...	...	...	...	...	168	...
Other Vessels ...	8	1,678	.....	4	1	2	...	7	...	32
Total ...	32	7,624	2,623	4	1	2	5	7	168	32
1898 ...	20	12,321	.....	5	8	3	3	5	...	150

8. Vessels which became infected while in port are not shown in the above table but are noticed in Table No. 9.

9. Five cases of scarlatina which are shown in the foregoing table as having occurred on board a troop-ship were landed and isolated in the Military Cantonment at Colába. One of the P & O Steamers arrived with a case of small-pox amongst her European passengers. The case was removed to the Saint George's Hospital and such of the persons amongst the crew and passengers as were found unprotected by previous vaccination or small-pox and who were willing to submit to it were vaccinated. The total number of persons thus vaccinated was 32.

10. One vessel arrived with 2 cases of measles and 3 vessles with 7 cases of chicken-pox. The cases of measles and chicken-pox were removed to hospitals on shore and the necessary precautions for the disinfection of the vesseles were taken.

11. Three steamers entered the harbour each with a case of plague on board and one landed a native passenger suffering from plague at an intermediate port during her voyage from Hongkong to Bombay. The three cases of plague were sent for treatment to the Plague Hospital and the ships by which they arrived were thoroughly disinfected in accordance with the Venice Convention Regulations.

12. It will be seen from the foregoing table that 23 vessels with 4,633 crew and passengers arrived at the Port of Bombay from Jigger infected ports on the south-east coast of Africa. 168 perons were found to be suffering from Jigger and ulcers due to Jigger and were removed to the Goculdas Tejpal Hospital for treatment. In each case where sand ballast was found on a Jigger infected ship, it was discharged into the sea and the vessels were thoroughly disinfected with carbolic solution or perchloride of mercury of the prescribed strength. The clothing and effects of all passengers on ships among whom Jigger cases were detected were thoroughly disinfected in a steam sterilizer before they were allowed to go to their destination. The passengers were made to understand the importance of immediate resort to the nearest Government dispensary in the event of their suffering from painful swellings on their limbs or between their toes or under their toe nails.

13. The following table furnishes the names of such vessels and the number of crew and passengers inspected and also the total number of persons who suffered from Jigger and the number of passengers disinfected.

Table No. 4.

Serial Number.	Name of the Vessel.	Date of arrival.	Number of Persons inspected.			Cases of Jigger found amongst the Passengers landed at Bombay.	Number of persons disinfected.
			Crew.	Passengers.	Total Crew and Passengers.		
1	S.S. "Goa"	14th March 1899 ...	90	113	203	12	110
2	„ "Crescent"	11th April „ ...	44	96	140	2	96
3	„ "Canara"	12th „ „ ...	85	255	340	2	255
4	„ "Sultan"	7th May „ ...	63	266	329	23	260
5	„ "Goa"	„ „ ...	87	101	188	14	93
6	„ "Safari"	1st June „ ...	56	111	167	3	111
7	„ "Canara"	4th „ „ ...	87	106	193	7	103
8	„ "Sirdhana" ...	5th „ „ ...	92	38	130	1	36
9	„ "Sultan"	29th „ „ ...	66	107	173	8	107
10	„ "Goa"	2nd July „ ...	91	64	155	3	64
11	„ "Safari"	15th „ „ ...	52	61	113	7	61
12	„ "Lawada"	20th „ „ ...	106	84	190	3	80
13	„ "Setos"	28th „ „ ...	56	53	109	8	49
14	„ "Patna"	1st August „ ...	85	27	112	1	11
15	„ "Sultan"	22nd „ „ ...	64	149	213	4	34
16	„ "Goa"	28th „ „ ...	91	102	193	11	102
17	„ "Safari"	25th September „ ...	54	178	232	13	178
18	„ "Canara"	29th „ „ ...	91	117	208	1	117
19	„ "Goa"	24th October „ ...	93	241	334	12	130
20	„ "Safari"	6th November „ ...	51	53	104	6	40
21	„ "Safari"	18th December „ ...	53	60	113	4	60
22	„ "Sultan"	18th „ „ ...	62	413	475	7	413
23	„ "Goa"	19th „ „ ...	92	127	219	16	113
	Total ...	.....	1,711	2,922	4,633	168	2,623

14. In accordance with Government Notification No. 4617-4858-P, dated the 17th August 1898, and Notification No. 3893-P, dated the 14th June 1899, under the Epidemic Diseases Act and the Medical Inspection Rules framed under the Indian Ports Act, the examination of incoming vessels was imposed only on arrivals from plague, jigger, and cholera infected ports during the year. Vessels which had infectious disease dangerous to life at the time of arrival or during the voyage were also medically examined. The ports against which the inward inspection was imposed were Ulwa, Káthiáwár Coast, Karáchi, Persian Gulf Ports, Jeddah, Alexandria, Mauritius, Ports on the South-east coast of Africa, Hongkong and other Eastern Ports.

15. Owing to the outbreak of cholera in an epidemic form at Karáchi during the months of May, June, July and August 1899, all vessels from that port were carefully inspected on arrival with a view to prevent the importation of cholera into the City of Bombay. The vessels were thoroughly disinfected and the decks were scraped and afterwards washed with a five per cent. solution of carbolic acid or a solution of perchloride of mercury of the strength of 1 in 1,000. The bilge water was pumped out and a fresh supply of drinking water was stored on board. Vessels trading between Bombay and Karáchi were recommended not to take on board at Karáchi any drinking water.

16. The following table shows the total number of vessels, crew and passengers examined on arrival at Bombay from the abovementioned ports.

Table No. 5.

Months.	Number of Vessels inspected.			Number of Persons inspected.							Number of Persons segregated.			Number of Plague cases found on arrival at Bombay.
				Passengers.		Crew.		Total.						
	Number of Steam-ship and Square-Rigged Vessels.	Number of Native Sailing Craft inspected.	Total.	Steam-ship and Square-Rigged Vessels.	Country Craft.	Steam-ship and Square-Rigged Vessels.	Country Craft.	Number of Passengers.	Number of Crew.	Number of Crew and Passengers.	Passengers.	Crew.	Number of Crew and Passengers.	
1899.														
January ..	69	304	373	11,399	1,244	3,675	1,028	12,643	4,703	17,346	23	3	26	..
February ..	62	344	406	8,556	1,208	3,100	1,012	9,764	4,112	13,876	11	..	11	..
March... ..	33	141	174	6,089	529	2,202	479	6,618	2,681	9,299	15	..	15	1
April	19	..	19	708	..	2,123	..	708	2,123	2,831	5	..	5	3
May	16	..	16	1,386	..	1,306	..	1,386	1,306	2,692	38	2	40	1
June	33	..	33	1,602	..	2,653	..	1,602	2,653	4,255	19	3	22	..
July	40	..	40	1,244	..	3,314	..	1,244	3,314	4,558	27	1	28	..
August ..	37	..	37	1,733	..	2,915	..	1,733	2,915	4,618	24	1	25	..
September ..	23	2	25	1,905	12	1,960	21	1,917	1,981	3,898	21	..	21	..
October ..	17	6	23	2,943	36	1,969	199	2,979	2,168	5,147	12	..	12	..
November ..	19	5	24	2,859	8	1,054	90	2,867	1,744	4,611	6	..	6	..
December ..	23	5	28	1,399	....	2,233	117	1,399	2,350	3,749	27	..	27	..
Total ..	391	807	1,198	41,823	3,037	29,104	2,946	44,860	32,050	76,910	228	10	238	4

17. The above table includes the number of ships which brought returning pilgrims from Jeddah, but a separate Table No. 10 showing such arrivals will be found later on.

III.—Outward Vessels.

Table No. 6.

18. Shows the number of outward bound vessels and their passengers and crew inspected month by month from 1st January to 31st December 1899.

Months.	Number of Vessels inspected.			Number of Persons inspected.							Number of Persons rejected.			Number of Plague cases which developed among the rejection.
				Passengers.		Crew.		Total.						
	Number of Steam-ship and Square-Rigged Vessels inspected.	Number of Native Sailing Craft inspected.	Total.	Steam-ships and Square-Rigged Vessels.	Country Craft.	Steam-ships and Square-Rigged Vessels.	Country Craft.	No. of Passengers.	No. of Crew.	No. of Passengers and Crew.	Passengers.	Crew.	Total Passengers and Crew rejected.	
1899.														
January	268	6,328	6,596	55,100	9,594	13,197	40,474	64,604	53,671	118,275	1,708	87	1,795	20
February	245	6,365	6,610	57,678	9,653	12,973	40,619	67,331	53,592	120,023	3,089	146	3,235	34
March	255	6,865	7,120	67,191	7,690	13,048	43,679	74,881	56,737	131,698	2,910	157	3,067	33
April	255	6,464	6,719	37,771	4,920	13,150	41,036	42,691	54,186	96,877	762	124	886	10
May	262	7,283	7,545	45,260	6,809	12,323	46,537	52,069	58,859	110,928	1,487	134	1,621	4
June	166	2,159	2,325	20,448	1,838	9,247	12,604	22,284	21,851	44,135	545	90	635	1
July	192	1,270	1,462	13,680	831	9,292	9,514	14,511	18,776	33,287	249	65	314	..
August	250	2,485	2,735	15,361	1,629	10,138	16,861	16,990	26,999	43,989	436	80	516	1
September ...	230	3,989	4,219	34,705	4,772	13,255	28,863	39,476	42,118	81,594	871	105	976	5
October	252	6,404	6,656	50,824	5,293	13,987	41,165	56,117	55,152	111,269	1,417	135	1,552	1
November... ...	261	5,795	6,056	46,959	4,193	14,859	37,513	51,152	52,371	103,523	896	122	1,018	..
December	265	6,296	6,561	58,238	5,805	13,672	42,306	64,043	55,978	120,021	1,655	155	1,810	8
Total ..	2,891	61,703	64,594	503,212	62,937	149,110	401,170	566,149	550,280	1,116,429	16,015	1,499	17,424	117

19. In accordance with the Medical Inspection Rules prescribed in General Department (Plague) Notification No. 4616—4857-P., dated the 17th August 1898, and Notification No. 3892-P., dated the 14th June 1899, the medical

examination of the crew and passengers of all vessels, including Native Sailing Craft which left Bombay for ports out of India was carried out by day *on shore* in sheds specially arranged for that purpose. Persons who embarked for vessels in the stream were examined at Modi Bandar or Ballard Pier, while persons who embarked on vessels in the Docks were examined in the sheds alongside the vessel. There were also three centres in the harbour for the examination of the crews of the smaller Native Craft which run to the ports in close proximity to Bombay. As soon as the monsoon was over, another centre of examination was established at Warli and Máhím Bandars on the other or north-western side of the Island.

20. The result of the outward inspections for the year under report is given in the above table. It shows that out of 1,116,429 outward bound crew and passengers inspected, 17,424 or over 1½ per cent. were prevented from sailing. Many of them were suffering from fever and were turned into the town for a day or so until their temperature fell to normal. The remainder were sent to the Port Observation Camp, where 117 of them developed plague.

21. The following table shows that out of the 64,594 outgoing vessels with 550,280 crew and 566,149 passengers examined during the year, 297 vessels left with 28,815 crew and 23,811 passengers for Aden, Red Sea and Europe; 527 vessels with a total of 27,235 crew and 14,622 passengers for ports out of India other than Aden, Red Sea and Europe, and the remaining 63,770 vessels with 494,230 crew and 527,716 passengers for Indian Ports, including Burmah:—

Table No. 7.

Months.	Number of Vessels with crew and passengers left Bombay for Aden, Red Sea and Europe.				Number of Vessels with crew and passengers left for Ports out of India (including Persian Gulf) other than Aden, Red Sea and Europe.				Number of Vessels left for Ports in India, including Burmah.				Total Number of Vessels which sailed for all Ports with their crew and passengers.			
	Number of Vessels.	Crew.	Passengers.	Total Crew and Passengers.	Number of Vessels.	Crew.	Passengers.	Total Crew and Passengers.	Number of Vessels.	Crew.	Passengers.	Total Crew and Passengers.	Total Number of Vessels.	Total Number of Crew.	Total Number of Passengers.	Total Number of Crew and Passengers
1899.																
January	31	2,807	4,645	7,452	81	2,968	1,271	4,239	6,484	47,896	58,688	106,584	6,596	53,671	64,604	118,275
February	29	4,550	2,209	6,759	71	2,419	835	3,254	6,510	46,623	64,287	110,910	6,610	53,592	67,331	120,923
March	25	1,924	4,485	6,409	66	2,398	578	2,976	7,029	52,405	69,818	122,223	7,120	56,727	74,881	131,608
April	36	2,668	1,945	4,613	49	2,093	227	2,320	6,634	49,425	40,519	89,944	6,719	54,186	42,691	96,877
May	36	2,378	1,278	3,656	34	1,737	617	2,354	7,475	54,744	50,174	104,918	7,545	58,859	52,069	110,928
June	32	2,209	868	3,077	16	1,608	424	2,032	2,277	18,034	20,992	39,026	2,325	21,851	22,284	44,135
July	25	2,267	1,224	3,491	19	1,529	331	1,860	1,418	14,980	12,956	27,936	1,462	18,776	14,511	33,287
August	19	1,850	536	2,386	20	1,688	450	2,138	2,696	23,461	16,004	39,465	2,735	26,999	16,990	43,989
September ...	13	1,589	627	2,216	35	3,319	5,799	9,118	4,171	37,210	33,050	70,260	4,219	42,118	39,476	81,594
October	19	2,242	3,184	5,426	40	2,571	1,919	4,490	6,597	50,339	51,014	101,353	6,656	55,152	56,117	111,269
November	14	2,229	1,710	3,939	41	2,437	955	3,392	6,001	47,705	48,487	96,192	6,056	52,371	51,152	103,523
December	18	2,102	1,100	3,202	55	2,468	1,216	3,684	6,478	51,408	61,727	113,135	6,551	55,978	64,043	120,021
Total ...	297	28,815	23,811	52,626	527	27,235	14,622	41,857	63,770	494,230	527,716	1,021,946	64,594	550,280	566,149	1,116,429

22. In accordance with Government Resolution, General Department (Plague), No. 1088-P., dated the 13th February 1899, the clothing and bedding of Native Crew of vessels proceeding to ports out of India was carried out at Malet Bandar, where the Port Health Stove is stationed. This disinfection was extended to the effects of all the Asiatic and African members of the crew, (with the exception of Japanese crew, who are specially exempt from disinfection), third class or deck passengers and Native servants of passengers who sailed on vessels for ports out of India from 15th June 1899 by Notification No. 3892-P., dated the 14th June 1899. The Municipal Sterilizer at Modikhána Hospital was used for the disinfection of the kit of the crew and passengers who sailed in Native Sailing Craft for foreign ports.

23. The method of disinfection is as follows:—

The new Native crew are collected in the Disinfection Shed by an official from the Shipping Office who brings a copy of the articles. Roll-call from the articles takes place so as to make certain that all the Native crew as well as their property are on the spot at the same time. The shed is divided into two portions. In the larger portion the crew's kit is sorted. The crew dress themselves in the cleanest clothing available and if they have no clean clothing, they wear a loin cloth or longooty. The remainder of their

clothing and bedding is put through the stove and subjected to saturated steam at a pressure of 10 lbs. to the square inch. This pressure gives a temperature of 239° F° which is said to give absolute disinfection in the case of the most resistent organisms yet isolated. Clothes, mattresses and bedding are kept in the stove for 15 minutes and during that time they are subjected to three changes of steam. They are then dried for about five minutes with hot air. Boots, shoes and rain-coats are disinfected with a spray of perchloride of mercury of the strength of 1 in 1,000 or if they are greasy they are sprayed with live steam through a hose from the boiler. The crew's boxes are brushed inside and out or washed if they are dirty. They are then rolled about in a large tub containing a solution of perchloride of mercury 1 in 1,000. The kit and boxes are then passed into a second part of the shed where they are packed. The boxes are then stamped with the date and conveyed to the ship under a Police escort. All the boxes on the ship are examined at the time of sailing and if any box is found without the stamp showing the date on which it and its contents were disinfected the owner is not allowed to sail by that ship. While the disinfection of crew's kit is being carried out one of the Port Health Staff or the European Sanitary Police goes on board to see that no bedding is stowed away in the forecastle, forepeak or other part of the ship. The effects of the third class, deck passengers and native servants are disinfected on the day of sailing in the same manner as described above.

Table No. 8.

24. Shows that the effects of 36,824 Native crew and 8,040 third class or deck passengers were disinfected during the period extending from 14th February to 31st December 1899:—

Months.	Number of Persons who sailed by Steamers disinfected.			Number of Persons who sailed by Native Sailing Craft disinfected.			Total Number of Persons disinfected.			Authority under which they were disinfected.
	Crew.	Passengers.	Total.	Crew.	Passengers.	Total.	Crew.	Passengers.	Total.	
1899.										
February (14th to 28th)	1,057	...	1,057	569	...	569	1,626	...	1,626	Government Resolution, General Department (Plague), No. 1088-P., dated 13th February 1899.
March	2,353	...	2,353	686	...	686	3,039	...	3,039	
April	2,579	...	2,579	726	...	726	3,305	...	3,305	
May...	2,474	...	2,474	360	...	360	2,834	...	2,834	
June	3,179	81	3,260	14	...	14	3,193	81	3,274	Rule I of the Port Medical Inspection Rules issued under Government Notification No. 3892-P., dated the 14th June 1899.
July...	3,530	695	4,225	...	...	...	3,530	695	4,225	
August	3,246	708	3,954	9	...	9	3,255	708	3,963	
September...	4,260	2,378	6,638	14	...	14	4,274	2,378	6,652	
October	3,426	1,430	4,856	241	2	243	3,667	1,432	5,099	
November...	3,495	1,413	4,908	317	...	317	3,812	1,413	5,225	
December	3,566	1,176	4,742	723	157	880	4,289	1,333	5,622	
Total ...	33,165	7,881	41,046	3,659	159	3,818	36,824	8,040	44,864	

25. The above table does not include the number of persons whose effects had to be disinfected on account of their having arrived by Pilgrim, Jigger and other infected ships. The number of persons thus disinfected will be found on reference to Tables Nos. 4 and 10.

26. In addition to the medical examination of crew and passengers which was conducted by day on shore prior to their embarkation as directed by the Venice Sanitary Convention, the ship's company was again inspected on board before the issue of a Bill of Health immediately before departure from this port. This means that the crew of almost all vessels bound to ports out of India were examined three times, first when they were shipped, secondly when their kit was being disinfected and thirdly immediately before the vessel sailed.

27. The form of Bill of Health issued to vessels sailing for foreign ports was the same as that prescribed by the Government of India in 1890, with certain additions and alterations made in it. The wording of the Bill of Health runs as follows. The additions made to the original form are in italic :—

Bill of Health.

"This is to certify that the (steamer) '_____' sailing under the_____ flag and under the command of Captain _____, of_____, tons bound for _____ with a crew* of _____ persons and _____ passengers, and laden with a cargo of _____, is at the time of leaving this port in a satisfactory sanitary condition, and that no case of infectious disease dangerous to life exists among its officers, passengers or crew, *who have been examined by day on shore before embarkation and found free from plague.*

It is further certified that the Town and Port of Bombay are at present free from Epidemic Cholera, Yellow fever, and all other dangerous Epidemic Diseases, *except plague which exists in an epidemic form.*

The clothing and bedding of the native crew and of the third class or deck passengers have been disinfected on shore."

28. During the year under report 2,891 steamers and square rigged vessels were examined. All of them were certified to have sailed from Bombay in a satisfactory sanitary condition. The Commanders and Agents have been very careful in paying attention to the sanitary state of their ships and in all cases they have cheerfully carried out the instructions and advice of the Port Health Officer. The forecastles were painted or limewashed before departure. Ships in ballast had their 'tween decks and holds cleaned before leaving the harbour and in the case of coal ships the 'tween decks of which are used as latrines by the four or five hundred coolies, who are employed in discharging the coals, were thoroughly washed down and in most cases limewashed or disinfected with a solution of carbolic acid. 61,703 Native Sailing Craft were inspected during the year. Their bilges were generally clean at the time of inspection. Those that were not clean had to postpone their departure until thoroughly cleaned.

29. During the year it was noticed that the ventilating or over-flow pipes from the drinking water tanks in the holds of some vessels led directly into the bilges. At the close of the year 1898, the water tanks of all vessels were examined and out of 163 ocean going steamers 14 were found to have the water tanks leading into troughs in connection with the bilges or directly into the bilges themselves. This was more or less insanitary as the gas from the foul bilges, as well as cockroaches, small rats, &c., could find their way into the tanks, containing the drinking water. The matter was brought to the notice of Government, with a view to a representation being made to the Board of Trade, so that all new vessels may have the over-flow or ventilating pipes from the drinking water tanks brought up on deck. The supreme Government referred the matter to the Board of Trade and in reply the latter authorities stated that in their opinion the evidence of the actual contamination of the water contained in the tanks was not sufficient to justify them in insisting on structural alterations in the case of vessels for which passenger certificates have already been issued. They proposed, however, to instruct their surveyors that in the case of any new steam ships coming under survey for passenger certificate for the first time, the over-flow pipes from drinking water tanks should not be allowed to discharge into the bilge and that the air pipes should be led to the weather deck.

30. The supreme Government has taken up the matter of the crowding of the crew's quarters, which was marked during past years and reported on in previous reports by the various officers who acted as Port Health Officer year after year. The sufficiency or otherwise of the accommodation for laskars on board British ships is being enquired into and special reports on the subject have been called for by Government from the Chief Authorities of the Port and the Bombay Chamber of Commerce. It would therefore be needless to offer any remarks on the matter in this report.

IV.—Infectious Disease on Vessels in the Harbour.

Table No. 9.

31. The following table includes all steamers, square rigged vessels and Native Craft which became infected while at sea, or whose crew and passengers

* Including Officers and able-bodied seamen.

developed plague after arrival. It also shows the number of dock labourers or coolies who were removed to Plague Hospitals from the Docks and Bandars :—

Months.	Steamers.									Buggalows, Tonies, Prows, Steam-Launches, &c.									Persons who were attacked with Plague at Bandars and in the Docks.		Total Number of Cases of Infectious Diseases in the Bombay Harbour.							
	Number of Ships.	Cholera.		Small-pox.		Measles.		Plague.		Number of Native Craft.	Cholera.		Small-pox.		Measles.		Plague.				Total number of Infected Vessels.	Cholera.		Small-pox.		Measles.		Plague.	
		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1899.																													
January	....	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	3	2	...	...	8	...	..	...	...	...	...	3	2
February	2	...	...	...	...	1	...	1	1	5	...	...	1	...	...	...	4	4	1	...	7	...	...	1	...	1	..	6	5
March	1	...	...	...	...	..	...	1	1	4	...	...	...	...	...	...	4	3	6	5	5	...	...	...	...	...	...	11	9
April	2	...	...	...	...	...	...	2	...	2	...	...	...	...	...	...	2	2	1	1	4	...	...	...	...	...	...	5	3
May	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	2	2
June	...	...	...	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
July	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...
September	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1
October	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	1
November	2	...	...	...	...	1	...	1	1	2	...	...	...	...	...	...	2	1	...	...	4	...	...	...	...	1	...	3	2
December	3	...	...	...	...	3	...	...	...	1	...	...	...	...	...	...	1	1	1	...	4	...	...	...	...	3	...	2	1
																				Total ...	30	1	1	1	...	5	...	34	26

32. All the above vessels including those on table 3 were thoroughly disinfected in accordance with rules laid down in the Venice Sanitary Convention and those framed under the Indian Ports Act.

V.—Port Observation Camp.

33. During the first two epidemics and up to the 15th January 1899, some of the rejected persons from vessels were sent to the Plague Committee's Camps for observation and disposal. After the 15th January 1899 the Municipal Authorities were unable to admit such people into their observation hospital at the Modikhana owing to want of accommodation. A part of the old Modikhana Camp was therefore taken over by Government from the Municipal Authorities and converted into an observation camp for harbour purposes. This camp was opened on the 16th January 1899 with an establishment of one Hospital Assistant and one Ayah. One sweeper was also sanctioned but his services were not utilized, as arrangements were made with the Public Health Department of the Bombay Municipality for sweeping the camp. One of the Senior Medical Officers of the Port Health Staff was detailed from time to time to supervise the general working of the camp. Food was supplied to the destitute and sick people at the cost of Government.

34. The number of persons who developed plague among those segregated in the camp during the year was 121. Precautions were taken to have all the sheds thoroughly disinfected twice a week with the standard solutions of perchloride of mercury. As soon as a case of plague developed in a shed, the latter was at once disinfected with a solution of perchloride of mercury and was not used for some time after.

35. Persons sent to the observation camp were kept until their temperature fell to normal or until it was certain that the fever from which they were suffering was not due to plague.

36. Shortly after the camp was opened it was found that some persons were taking money from some of those placed under observation or from their friends on the promise that they would obtain immediate release from the camp. One man was detected, convicted and got six months' imprisonment.

VI.—Harbour-Patrol.

37. About January 1899 the Collector of Ratnágiri wrote to say in his letter No. 102 of 9th January 1899, that 4 suspicious cases were landed near Ratnágiri by country craft. On a representation being made to Government, the Harbour Patrol was carried out more systematically by the Harbour Police, under the orders of the Commissioner of Police as well as by the officers of the Customs Department. Some native craft were found with excess crew or passengers who had not been medically inspected. They were in all cases handed over to the Superintendent of the Preventive Service for disposal. The offending tindals were fined. One man was fined as much as Rs. 50, while another got a month's rigorous imprisonment.

VII.—Disinfection of Ships and general health of the shipping.

38. During the year 1899 the total number of infected vessels of all sorts, disinfected under the personal supervision of the Health Officer of the Port or of his staff, and assisted by the Water Police, was 62. The Resident Transport Officer and the Senior Naval Officer arranged for carrying out the Port Health Officer's recommendations for the disinfection of transports on which cases of infectious diseases occurred.

39. The general health of the harbour population was fairly satisfactory. The various hospitals in the City admitted during the year 790 persons connected with the shipping. This number of admission is exclusive of plague. The Saint George's Hospital admitted 425 Europeans, of whom 13 died; the Jamsetji Jijibhoy 73 natives, of whom 7 died; and the Goculdas Tejpal 292 natives, of whom 18 died.

40. No deaths occurred from the effects of cleaning the bilges of ships during the year, but the Coroner of Bombay held 20 inquests on persons who died from accidents other than bilge-poisoning on board ships.

VIII.—Red Sea Pilgrim Traffic.

41. Owing to the existence of plague in Bombay, the pilgrim traffic between the infected Indian Ports and Jeddah was stopped during the year 1899. Accordingly no vessels with Mecca pilgrims left this Port for Jeddah during the year.

42. During the year 862 pilgrims returned from Jeddah, *vid* Aden and other routes, by vessels ennumerated in the following table :—

Table No. 10.

Name of Ship.	Date of arrival.	Number of Crew.	Number of Pilgrims.	Number of passengers other than Pilgrims.	From what route the Pilgrims arrived.	Number of deaths during voyage.	Cause of death.	Number of cases of infectious disease on board.	Nature of death.
S. S. "Dora"	16th March 1899 ...	25	15	...	Jeddah, *vid* Aden ...	...	.....	...	...
,, "Naderi"	25th March 1899 ...	60	6	...	Do. do. ...	...	.....	...	...
,, "Naseri"	22nd April 1899 ...	65	14	17	Do. do. ...	...	.....	...	...
,, "Patna"	1st June 1899 ...	85	6	...	Do., *vid* Br. Abass.	...	.....	...	...
,, "Naseri"	4th June 1899 ...	65	354	...	Do., *vid* Aden ...	3	2 Senile debility and 1 privations.	...	...
,, "Kilwa"	15th June 1899 ...	79	5	...	Do., *vid* Muscat ...	...	.....	...	...
,, "Ancona" ...	2nd July 1899 ...	76	59	...	Do., *vid* Aden ...	...	.....	...	...
,, "Hoseinee" ...	24th July 1899 ...	72	12	...	Do. do. ...	...	.....	...	...
,, "Patna"	31st July 1899 ...	85	11	...	Do. do. ...	...	.....	...	...
,, "Naderi"... ...	26th August 1899...	65	14	...	Do. do. ...	...	.....	...	...
,, "Patna"	28th August 1899 ...	85	44	...	Do. do. ...	...	.....	...	...
,, "Courland" ...	29th August 1899 ...	63	10	...	Do., *vid* Hodeida...	...	.....	...	...
,, "Ancona"... ...	3rd September 1899.	76	288	...	Do. do. ...	2	Diarrhœa .	...	...
,, "Mohomadi" ...	26th October 1899 ...	66	2	3	Do. do. ...	...	.....	...	...
,, "Jubeda"... ...	29th October 1899...	92	20	...	Do. do. ...	...	.....	...	...
,, "Goa"	20th December 1899	91	2	...	Do., *vid* Aden ...	...	.....	...	...
Total ...	.....	1,150	862	20	.....	5	.....	...	...

43. The baggage of all the returning pilgrims shown in the above table was disinfected at the Port Health Disinfecting Station. The pilgrims for up-country were not allowed into the town, but were sent direct from the ship to their homes by rail at the expense of Government.

IX.—Emigration Traffic.

44. The emigration traffic from Bombay was closed in the year 1897 and continued so up to date. Accordingly, no ship with emigrants sailed from this port, with the exception of the three vessels shown in the following table:—

Table showing the number of emigrants (coolies, artisans, &c.) who were allowed to leave the Port of Bombay for Mombassa under special orders of the Government of India.

Table No. 11.

Number.	Name of Steamers.	Date of Departure.	Port of Destination.	Number of emigrants (souls).
1	S. S. "Sultan"	1st September	Mombassa ...	22
2	„ "Chindwara"... ...	2nd do.	Do. ...	2
3	„ "Canara"	1st December	Do. ...	4
			Total ...	28

45. These emigrants were segregated for 10 days before they were allowed to depart.

X.—Sanitary state of the Harbour and Foreshore.

46. Owing to pressure of work the usual inspection of the harbour and foreshore was not made during the year, and consequently no remarks are made on their sanitary conditions.

XI.—Plague.

47. Owing to the rigorous nature of the examination of crew and passengers and the disinfection of suspicious clothing and bedding, very few fully developed plague cases were found at the time of inspection. The people did not present themselves, if they considered they were in any way suspiciously ill, so as to avoid the risk of being detained. Special care was taken in recording temperatures, as many of the persons who developed plague had a temperature of under 100° F. at the time of rejection.

48. With a view to prevent the spread of plague to countries out of India, the Port Health Officer made proposals to the effect that (*a*) Commanders of vessels bound for ports out of India should ship their native crew as many days as possible, say 7 days, before the time fixed for leaving the port, and (*b*) that Commanders be requested to take every reasonable precaution that their native crew did not enter the town. This could be done under the Epidemic Diseases Act. The proposals were made with a view to get the native crew for vessels out of, and keep them out of, the infected parts of the City. By doing this, they would in the first place escape many of the risks of contracting plague, and secondly, if they were in the incubation stage when shipped, the disease itself would be fully developed before the vessel left the port. These proposals were forwarded to the Chamber of Commerce for their opinion. The Committee of the Chamber expressed an opinion that the proposal to keep crews on board their ships for some days before sailing was impracticable. The system followed by ships with native crews is that on arrival in port the crew is paid off, and the same crew is customarily signed on again just before sailing. The Committee further submitted that if it be indispensable that lascars should be protected from contagion, Hogg Island or some equally isolated place ought to be utilized as a depôt from which drafts of seamen could be made to ships. In

conclusion they stated that the enquiries instituted tend to show that the existing regulations under the Venice Convention are in themselves all that can be practically desired, and that every effort is made by Agents and Commanders to secure a faithful observance of those regulations. After the careful consideration of the proposals Government passed an opinion that the thorough and strict medical examination now enforced, coupled with the disinfection of clothing and kit, is showing itself to be a very effectual safeguard, and till examination and disinfection prove ineffectual, the principles of the Venice Convention had better be adhered to.

49. The rigorous and very searching examination enforced on each individual who departed from this port, the thorough disinfection of suspicious clothing, bedding and boxes of those who left for ports out of India and the rejection of all persons who showed any suspicious signs or symptoms show a satisfactory result by the almost complete absence of genuine plague cases on the hundreds of Ocean going Steamers which left Bombay during the year under report.

50. The following Ocean going vessels were reported to have had plague on board after leaving Bombay.

(*a*). On the 18th of January 1899 the S.S. "Booldana" left the Port of Bombay for Rangoon and was reported to have conveyed out of this port a case of plague. This was a native crew. At the time of the inspection of the vessel one of the saloon crew a native cook, was missing. It turned out that the missing cook was at the time suffering from fever on shore and did not like to face the inspection. He died of plague on shore a few days after the vessels sailed. The man, who developed plague on board after leaving the port, was another native cook who was found to have resided in the same house as that in which the first cook died from plague. This cook who developed plague on board, was therefore a "contact."

(*b*). A "suspicious" case of plague was reported to have got away from Bombay in a vessel bound for Aden. This was on the S. S. "Caledonia" (running between Bombay and Aden) which left Bombay on 1st April 1899 and arrived at Aden on the 6th idem. A man named A. Dias, a Portuguese Scullian, was found suffering from fever and enlarged glands on the 7th and was landed in accordance with the standing order of the Company. The man was said to be suffering from Pestis Minor by the Aden Authorities and on the day the vessel left Aden, *viz.*, 10th April 1899, on her return voyage to Bombay the man's temperature had fallen. The man's name was entered by us in the official Log Book before the vessel left Bombay certifying that he was suffering from chronic enlarged glands, so that in the event of his suffering from fever in a foreign port the Captain may be able to produce it to show that the glands from which he was suffering were not due to plague. The Log Book was not produced when the man was landed from the vessel.

(*c*). The S. S. "Peninsular" which left Bombay for Aden and London on 23rd September 1899, is said to have landed at Plymouth a lascar who had suffered from plague during the voyage and was in a state of recovery at the time of his arrival at Plymouth. It has been stated by the Port Medical Officer, Plymouth, that on 21st October 1899 he made an incision into the bubo and obtained a pipette of blood and serum, which was submitted to Dr. Klein for examination, with a negative result.

(*d*). The Civil Surgeon, Muscat, reported the detection of an imported case of plague on the 13th April 1899 in the Town of Muscat from Bombay. The man who is said to have had plague in Muscat 16 days after arrival, arrived in Bombay from East Africa in the S. S. "Sultan" on the 8th March 1899 and embarked on the S. S. "Pachumba" on the 23rd March for the Persian Gulf *viâ* Karáchi. There is nothing to show that he had fever or a bubo of any kind when he left Bombay or when he arrived at, or left, Karáchi. According to the Civil Surgeon at Muscat the man is said to have developed a bubo on the 28th March the day before he arrived

at Muscat and although he was placed in quarantine on arrival the bubo was not discovered until the 13th. April, that is, 16 days after arrival or 21 days after leaving Bombay. The man was alive and the diagnosis of plague was not confirmed by a Bacteriological examination.

(*e*). The *Pall Mall Gazette* of 25th July 1899 announced that an outbreak of plague occurred on board the S. S. " Dictator " bound for Liverpool and laden with grain from Bombay and Karachi. The S. S. " Dictator " left Bombay in water ballast for Karáchi on the 14th June 1899. She carried a crew of 14 Europeans and 49 Natives. All the Natives' clothes, bedding and boxes were disinfected before being allowed on board. The vessel carried no passengers. The " Dictator " arrived at Karáchi all well on the 16th June 1899 and remained there for 9 clear days during which time she took on board a cargo of wheat and shipped one Native as a fireman. On the Dictator's arrival at Perim on the 4th July 1899 a sick Native was shown to the Port Surgeon who found him suffering from an enlarged gland in the right groin and a temperature of 101° F. These were said to be due to the man having fallen off a ladder. The Port Surgeon left the sick man on board, gave the captain certain instructions and informed the Suez Authorities. It was stated by the President of the Quarantine Board in Egypt that when the " Dictator " arrived at Suez on the 9th July 1899 she had two cases of plague and three suspects on board. A Bacteriological examination was made after arrival at Suez but no plague microbes were found in the man said to be suffering from plague.

51. The last two cases—" Pachumba " and " Dictator "—should not be counted against Bombay, because, although the vessels left this port they had been to another Indian Plague Port afterwards and were passed in by the authorities at that Port as free from plague. They are simply inserted here as they were Ocean going Steamers which had Bombay as their Port of departure. The " Caledonia " and Peninsular " were doubtful cases as both recovered and the diagnosis was not confirmed by the Bacteriological examination which was made. This leaves only one genuine case, *viz.* : that on the " Booldana " at Rangoon which developed plague after leaving this Port during the year 1899. Besides the above mentioned ships it is only reasonable to suppose that some of the coasting vessels must have conveyed plague cases to Karáchi and the small ports north and south of Bombay, but on the whole they must have been comparatively very few, more especially when the large passenger traffic which exists between these ports is taken into consideration. The coast ports south of Bombay to which the majority of the local, passengers go, are free from plague. Karáchi and Cutch-Mandvi are the only ports on the coast north of Bombay which are infected and the disease is said not to have left them since the first outbreak in 1896.

52. Whenever any of the crew or passengers, who were prevented from sailing on a vessel bound for a foreign port developed plague, the fact was communicated to Government with a view to telegraphic intimation being given to the authorities at the first port of call. In cases where plague occurred among persons prevented from sailing on vessels bound to an Indian Port, the fact was notified by the Port Health Officer to the next port at which the vessel was due to call.

53. During the year 117 cases of plague were prevented from proceeding on vessels leaving the Port, 34 cases were found on vessels and Native Craft in the Harbour and at the Docks and Bandars, and 4 were found on vessels coming from infected ports close to Bombay making a total of 155 plague cases.

54. Towards the end of the year 1898 the Indian Plague Commission was appointed. The members inspected the work of the Port Health Staff and took evidence on the measures adopted at this Port for the prevention of the spread of plague by sea. Their report has not yet been issued but at the time of their inspection they expressed themselves as being thoroughly satisfied with what was being done to prevent the spread of plague to foreign countries.

55. Unfortunately plague has broken out at foreign ports, but so far no country or port can point to Bombay as being the cause of the plague from

which they are suffering ; at least in no case can outbreaks at foreign ports be traced to the crew or passengers from Bombay. The question of infection by rats and cargo has not been touched on, as presumably the subject will be fully dealt with in the report of the Indian Plague Commission.

56. It is probable that plague of a mild type has been and is widely distributed in the East, and when at times it broke out as a mild epidemic, the high mortality was attributed to an unhealthy season or year. At present every one is on the look out for plague with the result that the true cause of the high mortality which occurs from time to time is recognised as being due to plague. I may mention that plague is endemic on the Arabian Coast of the Red Sea between Leith and Lohea, and that owing to recurrent epidemics in October 1893, July 1894, August 1895 and October 1896, quarantine was imposed at Suez and Aden against arrivals from the infected part of the Arabian Coast.

57. The majority of plague cases in the East contract the disease by inoculation through cracks, fissures or ulcers on the feet as the large majority of the population go barefoot. It is, therefore, probable that so long as plague in the East is confined to the bubonic type the people at European ports and at other ports where the population wear boots or shoes, will not suffer from the disease in an epidemic form.

XII—Establishment.

58, In order to carry out the inspection of persons leaving and arriving at Bombay by sea, and the disinfection of clothing and bedding, Government sanctioned in addition to the Health Officer of the Port of Bombay and his permanent establishment, the following extra staff :—

(*a*) Staff for Medical Examination Duties :—
- 5 Medical Officers (Commissioned or English Doctors).
- 1 Lady Doctor.
- 1 Lady Nurse.
- A special Lady Doctor for the day when required.
- 2 Ayahs.
- 9 Medical Subordinates.
- 1 Medical Officer at Mahim and Worli Bandars.

(*b*) For the Observation Camp :—
- 1 Medical Subordinate.
- 1 Ayah.
- 1 Sweeper or a general servant.

(*c*) For Disinfection-work :—
- 1 Medical Officer (English Doctor).
- 1 Medical Subordinate.
- 1 Engine Driver.
- 1 Fireman.
- 2 Coolies.
- 1 Ramoshi.

ROYAL LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

(*d*) Office :—
- 3 Temporary Clerks.
- 1 Naik.
- 2 Temporary Peons.

(*e*) Launch :—
- 1 Tindal.
- 2 Lascars.
- 1 Engine Driver.
- 1 Stoker.
- And a special Launch when required on days when work is heavy.
- 3 Tonies.

(*f*) Police :—
- 1 Inspector.
- 8 European Constables.
- 50 Native Constables.

59. In the early part of the year, *viz.*, on 28th January the Customs Medical Staff which consisted of one Lady Doctor and two private practitioners was transferred to the Port Health Officer on his taking over charge of all the Sea Inspection arrangements.

60. During the monsoon months when the inspection work became light a reduction in the sanctioned Medical Staff was made by transferring or dispensing with

2 English Doctors,
1 Medical Officer at Worli and Mahim Bandars,
1 Ayah, and
3 Medical Subordinates.

61. The Medical Staff, many of whom have been engaged since February 1897, have worked during the year under report with the same energy and tact which they have hitherto displayed in the performance of their very onerous and unpleasant duties.

62. The Sanitary Police under Inspector J. Wheatley and the office establishment under Mr. Ramrao G. Kamalakar have worked well and to my entire satisfaction.

J. CRIMMIN, V.C., Major, I. M. S.,
Health Officer of the Port.

Bombay Port Health Office,
Town Customs House,
Dated 16th May 1900.

APPENDIX III.

Statement showing the daily recorded deaths from Cholera and the daily Meteorological conditions in the following cities and towns during the year 1899.

Month and Date.	Deaths from Cholera recorded on each day.	Temperature of air in the shade.			Humidity.	Wind.		Rainfall in Inches.
		Highest Maximum.	Lowest Minimum.	Range.	8 A.M.	Direction.	Rate per hour.	
Bombay City.								
7th January 1899 ...	2	77·3	59·1	18·2	49	N.N.E.	13	...
8th „ „ ...	1	76·9	62·0	14·9	50	N.E.	12	...
9th „ „ ...	1	84·4	64·8	19·6	60	E.N.E.	12	...
11th „ „ ...	2	82·8	64·0	18·8	74	E.N.E.	7	...
14th „ „ ...	1	80·2	63·2	17·0	72	N.N.E.	10	...
15th „ „ ...	2	79·4	63·0	16·4	62	N.N.E.	10	...
19th „ „ ...	1	80·5	67·3	13·2	66	E.N.E.	12	...
21st „ „ ...	1	87·2	67·8	19·4	68	E.N.E.	10	...
27th „ „ ...	1	78·7	65·9	12·8	85	E.	6	...
29th „ „ ...	1	81·8	64·2	17·6	37	N.N.E.	11	...
4th February „ ...	1	88·4	70·1	18·3	65	E.	7	...
7th „ „ ...	1	81·4	67·0	14·4	67	N.N.E.	11	...
18th „ „ ...	1	80·3	66·7	13·6	68	N.	11	...
20th „ „ ...	1	82·2	68·2	14·0	72	N.	12	...
21st „ „ ...	2	82·2	69·4	12·8	74	N.	9	...
26th „ „ ...	1	82·9	70·1	12·8	78	E.N.E.	7	...
1st March „ ...	1	85·5	71·6	13·9	72	N.	9	...
3rd „ „ ...	2	85·9	71·6	14·3	77	E.N.E.	10	...
6th „ „ ...	1	86·4	70·9	15·5	73	N.E.	9	...
7th „ „ ...	2	84·7	71·1	13·6	84	N.N.E.	8	...
9th „ „ ...	1	87·4	72·1	15·3	67	N.	12	...
12th „ „ ...	1	83·6	72·9	10·7	68	N.	12	...
13th „ „ ...	2	85·6	74·4	11·2	63	N.N.W.	16	...
15th „ „ ...	1	88·5	75·3	13·2	68	N.E.	12	...
17th „ „ ...	2	86·7	75·0	11·7	67	N.	19	...
18th „ „ ...	1	86·4	74·1	12·3	58	N.	18	...
19th „ „ ...	2	87·8	73·2	14·6	75	N.E.	14	...
23rd „ „ ...	2	86·5	75·5	11·0	88	E.	6	...
24th „ „ ...	2	87·7	75·2	12·5	84	S.E.	7	...
25th „ „ ...	1	87·3	76·7	10·6	77	S.S.E.	8	...
29th „ „ ...	2	89·0	75·1	13·9	74	N.N.E.	10	...
31st „ „ ...	2	88·3	75·0	13·3	78	N.	12	...
6th April „ ...	1	89·0	77·3	11·7	78	N.N.E.	8	...
9th „ „ ...	1	88·4	77·0	11·4	80	S.	8	...
10th „ „ ...	1	88·8	78·3	10·5	77	S.E.	11	...
17th „ „ ...	2	90·8	82·5	8·3	69	N.N.W.	8	...
18th „ „ ...	1	92·2	83·0	9·2	71	S.S.E.	8	...
19th „ „ ...	1	91·4	82·3	9·1	76	S.S.W.	10	0·13
20th „ „ ...	1	90·6	78·5	12·1	88	S.S.E.	10	0·23
21st „ „ ...	1	86·0	78·3	7·7	65	N.	6	0·28
22nd „ „ ...	1	84·2	74·7	9·5	85	N.	10	1·06
23rd „ „ ...	1	87·0	79·0	8·0	69	S.W.	8	...
26th „ „ ...	1	88·0	77·0	11·0	55	W.S.W.	7	...
28th „ „ ...	1	89·4	78·8	10·6	74	N.	9	...
29th „ „ ...	1	88·9	77·0	11·9	71	N.N.E.	11	...
2nd May „ ...	1	88·4	78·3	10·1	73	E.N.E.	7	...
4th „ „ ...	1	88·7	79·8	8·9	75	N.W.	8	...
5th „ „ ...	1	89·4	80·0	9·4	80	Calm.	8	0·01
7th „ „ ...	2	90·0	80·2	9·8	75	N.	12	...
9th „ „ ...	1	90·7	81·4	9·3	81	N.W.	14	...
13th „ „ ...	1	90·6	80·0	10·6	79	S.E.	6	...
18th „ „ ...	1	90·6	81·7	8·9	68	W.S.W.	8	...
21st „ „ ...	1	90·9	82·9	8·0	74	W.S.W.	9	...
26th „ „ ...	1	90·6	81·8	8·8	67	S.W.	10	...
29th „ „ ...	1	92·2	83·0	9·2	71	W.	14	...
10th June „ ...	1	91·4	77·2	14·2	81	S.S.E.	13	0·59
14th „ „ ...	1	86·0	76·9	9·1	92	S.E.	11	0·84

APPENDIX III—*continued.*

Month and Date.	Deaths from Cholera recorded on each day.	Temperature of air in the shade.			Humidity.	Wind.		Rainfall in Inches.
		Highest Maximum.	Lowest Minimum.	Range.	8 A.M.	Direction.	Rate per hour.	
Bombay City—*continued*								
10th July 1899 ...	1	85·5	77·1	8·4	76	W.	20	0·56
19th „ „ ...	1	84·2	78·2	6·0	83	W.S.W.	15	0·08
21st „ „ ...	1	84·4	79·3	11·1	81	W.S.W.	15	0·05
26th „ „ ...	1	86·3	79·9	6·4	79	W.S.W.	16	0·09
27th „ „ ...	1	84·5	79·2	5·3	79	W.	16	...
28th „ „ ...	2	85·7	78·5	7·2	81	W.	9	0·21
29th „ „ ...	1	85·7	78·3	7·4	83	W.	8	0·08
31st „ „ ...	3	86·6	79·3	7·3	79	W.	9	...
3rd August „ ...	2	87·2	77·3	9·9	76	W.S.W.	10	0·11
8th „ „ ...	1	84·8	78·6	6·2	81	W.	21	0·30
12th „ „ ...	1	83·7	77·6	6·1	80	W.	8	0·08
18th „ „ ...	1	85·0	77·6	7·4	80	W.	11	0·07
19th „ „ ...	1	85·8	78·5	7·3	83	W.S.W.	12	0·02
22nd „ „ ...	1	86·0	77·8	8·2	88	S.S.W.	6	0·20
23rd „ „ ..	1	85·4	77·8	7·6.	93	N.N.W.	6	0·41
25th „ „ ...	1	85·6	78·6	7·0	80	W.	9	0·03
16th Sept. „ ...	1	86·3	78·0	8·6	87	E.N.E.	7	...
1st October „ ...	2	87·4	77·2	10·2	82	N.N.E.	11	...
20th „ „ ...	1	91·8	78·0	13·8	78	E.N.E.	6	...
31st „ „ ...	1	90·2	75·0	15·2	69	E.S.E.	8	...
3rd Nov. „ ..	1	90·1	74·0	16·1	72	E.	8	...
14th „ „ ...	1	85·7	72·7	13·0	78	E.N.E.	9	...
15th „ „ ...	1	84·2	72·9	11·3	87	N.E.	9	...
21st „ „ ...	1	86·0	72·5	13·5	72	E.N.E.	7	...
23rd „ „ ...	2	87·3	74·2	13·1	70	E.N.E.	7	...
24th „ „ ...	1	87·2	73·9	13·3	64	E.	7	...
26th „ „ ...	1	87·7	73·1	14·6	51	N.E.	7	...
4th Dec. „ ...	1	86·7	71·9	14·8	60	E.	7	...
5th „ „ ...	1	83·3	72·9	10·4	70	E.S.E.	6	...
6th „ „ ...	1	85·0	71·8	13·2	74	E.	5	...
19th „ „ ...	1	87·6	72·0	15·6	67	E.N.E.	7	...
21st „ „ ...	1	90·4	70·9	19·5	73	E.N.E.	10	...
26th „ „ ...	1	89·3	69·8	19·5	65	E.N.E.	10	...

Month and Date.	Deaths from Cholera recorded on each day.	Temperature.		Wind.		Rainfall.
		Morning.	Evening.	Morning.	Evening.	
Na'sik Town.						
4th April 1899	1	76°	98°	S.W.	S.W.	Information is not available.
21st „ „	2	75°	85°	N.	N.W.	
2nd „ „	1	75°	88°	S.	W.	
9th May „	1	78°	98°	W.	S.	
29th „ „	1	78°	98°	E.	S.W.	

1	2		3			4		5			6
Month and Date.	Deaths from Cholera recorded on each day.		Temperature of air in the shade.			Moisture of air per cent. (100) being saturation.		Winds.			Rainfall in Inches.
								Directions.		Velocity, miles per diem.	
	Cases.	Deaths.	Highest Maximum.	Lowest Minimum.	Range.	10 H.	16 H.	10 H.	16 H.		
Poona.											
2nd August ...	1	...	90·0	66·6	23·4	55	53	W.S.W.	W.	414	0·00
5th „ ...	...	1	89·0	69·0	20·0	59	54	W.	W.S.W.	442	0·00
Shola'pur.											
1st April	1	...	104·1	69·5	34·6	30	25	S.E.	N E.	164·96	0·00
3rd „	...	1	103·2	72·7	30·5	28	17	S.E.	N.	110·20	0·00

Month and Date.	Attacks.	Deaths.	Maximum.	Minimum.	Range.	Mean daily air moisture.	Direction of Wind.		Miles per day.	Rainfall in Inches.
							Morning.	Evening.		
Belgaum Town.										
28th February 1899...	1	1	91·7	60·7	31·0	30	N.N.E.	E.N.E.	206	...
2nd March „ ...	1	1	92·0	62·1	29·9	45	E.S E.	N.	200	...
19th „ „ ...	2	1	96·5	64·0	32·5	72	Calm.	W.S.W.	244	...
29th „ „ ...	2	1	93·6	66·7	26·6	77	Calm.	W.N.W.	318	·04
30th „ „ ...	...	1	95·2	67·8	27·4	63	N.E.	E.N.E.	227	...
3rd April „ ...	1	...	95·8	63·7	32·1	79	W.N.W.	W.	304	...
5th „ „ ...	1	...	94·0	67·2	26·8	84	Calm.	W.S.W.	264	0·20
6th „ „ ...	...	1	100·2	65·9	34·3	42	Calm.	W.	235	...
7th „ „ ...	2	3	100·0	65·9	34·1	69	S.S.E.	W.N.W.	274	0·00
8th „ „ ...	1	...	101·3	64·8	36·5	28	N.E.	W.S.W.	265	0·00
9th „ „ ...	2	1	95·2	71·5	23·7	79	S.W.	W.N.W.	389	0·03
10th „ „ ...	3	5	97·8	63·9	33·9	70	S.	W.	388	0·00
11th „ „ ...	1	1	93·0	64·8	28·2	78	S.S.W.	W.	345	0·00
12th „ „ ...	2	2	95·2	64·7	30·5	69	W.N.W.	S.S.W.	334	...
13th „ „ ...	1	1	91·0	64·0	27·0	75	W.	W.N.W.	277	0·00
18th „ „ ...	2	2	82·4	67·0	15·4	94	Calm.	S.W.	360	1·40
23rd „ „ ...	2	2	85·0	63·9	21·1	87	W.S.W.	W.	361	0·00
24th „ „ ...	2	2	87·7	61·	26·7	75	W.S.W.	W.S.W.	272	...
25th „ „ ...	1	1	86·9	63·9	23·0	65	W.S.W.	W.	310	0·00
29th „ „ ...	1	1	92·0	65·3	26·7	51	N.N.E.	W.	246	...
30th „ „ ...	2	2	93·5	67·3	26·2	42	N.N.E.	N.N.W.	188	...
1st May „ ...	2	2	88·4	67·9	20·5	71	W.	W.N.W.	231	...
6th „ „ ...	1	...	94·8	66·2	28·6	57	N.N.W.	W.S.W.	315	...
11th „ „ ...	1	1	92·1	69·1	23·0	82	W.	S.W.	236	0·05
14th „ „ ...	1	2	92·0	70·1	21·9	79	W.N.W.	W.S.W.	400	0·02
16th June „ ...	1	1	75·2	69·0	6·2	90	S.W.	...	938	0·23
17th „ „ ...	1	1	77·0	68·0	9·0	95	S.W.	...	...	0·50
29th August „ ...	1	1	78·0	64·8	13·2	90	W.	W.S.W.	469	0·16
Belgaum Cantonment.										
26th March 1899 ...	1	1	92·5	66·3	26·2	80	S.W.	W.S.W.	353	0·00
27th „ „ ...	2	2	95·8	65·0	30·8	89	W.N.W.	W.S.W.	311	0·15
30th „ „ ...	1	1	95·2	67·8	27·4	63	N.E.	E.N.E.	227	0·00
23rd April „ ...	1	...	85·0	63·9	21·1	87	W.S.W.	W.	361	0·00
26th „ „ ...	1	...	89·8	63·9	25·9	75	W.N.W.	W.	378	0·00
27th „ „ ...	...	1	89·4	61·9	27·5	48	N.N.W.	W.N.W.	330	0·00
29th „ „ ...	...	1	92·0	65·3	26·7	51	N.N.E.	W.	246	0·00

Month and Date.	Deaths from Cholera recorded on each day.	Temperature of air in the shade.			Humidity.	Wind.		Rainfall in Inches.
		Highest Maximum.	Lowest Minimum.	Range.	8 A.M.	Direction.	Rate per hour.	
Kara'chi Town.								
1st April 1899	1	87·1	71·2	15·9	87	W.S.W.	8	...
19th " "	2	98·2	73·2	25·0	24	N.W.	12	...
21st " "	1	95·8	67·3	28·5	71	N.N.W.	7	...
22nd " "	1	98·5	71·9	26·6	63	W.N.W.	6	...
23rd " "	1	96·3	74·4	21·9	64	W.N.W.	8	...
24th " "	2	88·6	74·6	14·0	83	W.S.W.	11	...
27th " "	1	88·8	75·7	13·1	72	S.W.	10	...
29th " "	1	88·5	76·2	12·3	79	W.	13	...
30th " "	1	90·8	77·1	13·7	80	S.W.	12	...
2nd May "	1	90·4	78·4	12·0	75	S.W.	11	...
3rd " "	1	91·5	79·1	12·4	79	W.S.W.	11	...
6th " "	2	92·3	79·2	13·1	64	W.S.W.	8	...
12th " "	5	96·5	80·4	16·1	74	Calm.	10	...
13th " "	3	94·4	81·5	13·1	86	W.S.W.	9	...
14th " "	3	94·3	81·2	12·3	85	W.S.W.	10	...
15th " "	3	94·7	82·4	...	84	W.	13	...
16th " "	4	95·6	82·2	13·4	82	W.S.W.	13	...
17th " "	9	97·4	82·8	14·6	78	S.S.W.	16	...
18th " "	64	92·3	81·5	10·8	84	W.S.W.	15	...
19th " "	85	92·7	81·1	11·6	81	W.	16	...
20th " "	121	94·1	81·4	12·7	78	W.	15	...
21st " "	164	93·6	82·0	11·6	83	W.S.W.	15	...
22nd " "	168	92·4	82·1	10·3	81	W.	16	...
23rd " "	247	93·5	81·0	12·5	74	W.S.W.	16	...
24th " "	208	93·7	81·6	12·1	78	W.S.W.	16	...
25th " "	170	94·4	81·1	13·3	78	W.S.W.	14	...
26th " "	124	94·8	83·1	11·7	80	W.S.W.	12	...
27th " "	111	94·4	82·6	11·8	80	W.S.W.	12	...
28th " "	79	109·4	82·2	27·2	31	N.W.	11	...
29th " "	76	106·4	80·0	26·4	32	W.N.W.	13	...
30th " "	54	105·9	80·5	25·4	41	W.N.W.	14	...
31st " "	45	107·4	78·7	28·7	28	N.W.	11	...
1st June "	28	108·4	78·8	29·6	11	N.W.	12	...
2nd " "	50	111·4	73·1	38·3	12	N.W.	8	...
3rd " "	24	101·6	75·5	26·1	51	S.W.	8	...
4th " "	16	94·4	78·5	15·9	74	W.	9	...
5th " "	16	93·2	78·6	14·6	79	W.S.W.	11	...
6th " "	8	92·3	79·2	13·1	79	W.	12	...
7th " "	12	92·7	80·4	12·3	81	W.	15	...
8th " "	17	93·5	80·1	13·4	79	W.S.W.	15	...
9th " "	9	93·5	80·7	12·8	68	W.S.W.	16	...
10th " "	9	93·7	81·2	12·5	74	W.	13	...
11th " "	16	94·3	82·2	12·1	68	W.	14	...
12th " "	7	94·2	82·5	11·7	78	W.	14	...
13th " "	1	94·9	82·5	12·4	73	W.S.W.	15	...
14th " "	5	96·3	84·5	11·8	73	W.S.W.	13	...
15th " "	6	95·4	84·3	11·1	75	S.	11	...
16th " "	1	95·7	83·0	12·7	74	S.	10	...
17th " "	1	95·7	82·2	13·5	78	W.N.W.	7	...
18th " "	2	96·2	84·0	12·2	75	W.N.W.	12	...
20th " "	1	94·4	84·1	10·3	78	W.	18	...
21st " "	1	94·4	83·4	11·0	80	W.	19	...
23rd " "	1	95·3	83·3	12·0	84	W.S.W.	13	...
24th " "	3	94·8	83·7	11·1	78	W.S.W.	13	...
25th " "	4	95·4	83·8	11·6	84	W.	16	...
26th " "	1	93·6	84·3	9·3	84	W.S.W.	17	...
27th " "	2	94·4	84·0	10·4	82	S.W.	15	...
28th " "	3	93·7	84·0	9·7	84	W.S.W.	16	...
29th " "	3	94·6	83·9	10·7	76	W.	16	...
30th " "	...	94·4	84·2	10·2	76	W.S.W.	14	...

Month and Date.	Deaths from Cholera recorded on each day.	Temperature of air in the shade.			Humidity.	Wind.		Rainfall in Inches.
		Highest Maximum.	Lowest Minimum.	Range.	8 A.M.	Direction.	Rate per hour.	
Kara'chi Town—*continued.*								
1st July 1899 ...	2	95·4	84·2	11·2	78	W.S.W.	15	...
3rd „ „ ...	3	94·4	84·2	10·2	86	W.	14	...
5th „ „ ...	1	93·4	83·0	10·4	81	W.S.W.	18	...
11th „ „ ...	1	92·4	80·2	12·2	81	W.S.W.	18	...
16th „ „ ...	1	90·4	80·1	10·3	87	W.S.W.	13	...
20th „ „ ...	1	90·0	79·9	10·1	87	W.S.W.	15	...
22nd „ „ ...	1	88·5	79·2	9·3	91	W.S.W.	18	...
23rd „ „ ...	1	89·2	79·2	10·0	91	W.	16	...
25th „ „ ...	1	86·6	78·2	8·4	87	W.	19	...
27th „ „ ...	4	90·6	78·2	12·4	83	W.	14	...
28th „ „ ...	2	90·7	77·4	13·3	79	W.	12	...
30th „ „ ...	3	89·3	78·6	10·7	89	W.	17	...
31st „ „ ...	3	91·4	79·4	12·0	83	S.W.	13	...
1st August „ ...	3	91·3	79·4	11·9	89	W.	8	...
2nd „ „ ...	1	92·4	78·4	14·0	75	W.S.W.	9	...
3rd „ „ ...	3	91·4	80·0	11·4	79	W.	12	...
4th „ „ ...	3	89·5	80·1	9·4	75	W.	12	...
5th „ „ ...	2	89·1	80·1	9·0	83	W.	15	...
6th „ „ ...	3	89.4	79·7	9·7	83	W.	17	...
7th „ „ ...	1	91·0	80·4	10·6	83	W.S.W.	16	...
8th „ „ ...	3	91·3	80·5	10·8	85	W.	12	...
9th „ „ ...	5	92·4	80·1	12·3	79	W.N.W.	11	...
10th „ „ ...	4	90·4	79·8	10·6	83	W.	16	...
11th „ „ ...	1	88·4	80·1	8·3	89	W.S.W.	17	...
14th „ „ ...	1	86·4	79·4	7·0	87	W.S.W.	16	...
17th „ „ ...	1	89·8	79·1	10·7	83	W.S.W.	16	...
4th September „ ...	1	89·6	78·7	10·9	79	W.S.W.	13	...
30th „ „ ...	1	88·3	75·9	12·4	88	W.	13	...
4th October „ ...	1	102·4	71·1	31·3	21	N.N.W.	6	...
16th „ „ ...	1	90·4	73·4	17·0	89	E.S.E.	3	...

APPENDIX IV.

Military Works, Sanitary.

Station.	Actual cost in 1899.	Description of Military Works, Sanitary, undertaken during the year 1899.
1	2	3
Poona District.		
Poona	204	Providing five moveable Nagar pattern latrines to left flank hospital for Native Troops.
Do.	966	Providing washing up compartments to existing urinals, British Infantry Lines, Ghorpuri.
Ahmednagar ...	5,728	Erection of pumps, &c., for improving the water-supply of barracks at Ahmednagar.
Kirkee	90	Constructing a brick drain leading from bath-rooms of Engineer's quarters No. 1, Small Arms Ammunition Factory.
Do.	254	Constructing a concrete drain to carry away the waste-water from the new stand-pipes erected in the Royal Artillery Followers-Lines, Kirkee.
Do.	80	Constructing a drain to carry off waste-water, Royal Artillery Lines Dairy.
Sátára	36	Providing sunsheds to the windows and a door to the Guard room in the Station Hospital used as an infectious ward.
Do.	113	Providing a 6th semicircular glazed drain from the lavatory lines in the Station Hospital, Sátára, to a receptacle.
Do.	253	Providing ventilators to the cook-house on Hill Fort, Sátára.
Do.	66	Providing a 6th semicircular drain to the Government Bakery in the Commissariat compound, Sátára.
Do.	40	Providing stone pavement to No. 4 latrine in European Infantry Barracks.
Sirur	.....	None.
Purandhar ...	2,684	Re-roofing and improving the Assistant Surgeon's (Apothecary's) quarters.
Málegaon District ...	.....	None.
Bombay District.		
Colába	.....	None.
Bombay	235	Flushing arrangements have been given to the latrine used by the work-people, Medical Store Depôt, Byculla.
Baroda	8	Clearing out wells and encamping grounds at Baroda Miyagaon Itola. The work of usual annual clearance is in progress and will be completed shortly.
Do.	90	Clearing the drainage at Baroda.
Do.	2,020	Constructing a new well in the Native Infantry Lines at Baroda.
Bhuj	.....	None.
Devláli	113	Providing a sink and cistern to the dispensary of the Station Hospital.
Do.	21	Adding glazed earthen-ware troughs to urinaries of barracks.
Thána	.....	None.
Khandála... ...	18,296	Special repairs to Barrack No. 1 and Station Hospital, Khandála.
Do.	220	Constructing meat safes in the cook-houses of Barracks, Hospital and Regimental Institute, Khandála.
Do.	605	Special repairs to roof of Staff Sergeant's quarters.

APPENDIX IV—*continued.*

Station.	Actual cost in 1899.	Description of Military Works, Sanitary, undertaken during the year 1899.
1	2	
Mhow District.		
Nasirabad ...	1,700	The rough chowka stone floors in the work-houses of men's Barracks have been removed and replaced by Neemuch stone flags.
Do.	91	Wide wooden shelves to all cook-houses of men's Barracks.
Do.	48	Masonry drains to carry off bath-room water of the Patcheries.
Do.	522	Improving the urinals of the Royal Artillery and Station Hospital.
Mhow	36	Prolonging the drain of No. 4 Assistant Surgeon's quarters, Station Hospital.
Do	61	Providing tree guards and drains near Nos. 4 and 5 ablution rooms in British Infantry Lines.
Do.	50	Planting trees and honey-comb work tree guards at the Station Hospital.
Do.	97	Constructing a drain to carry off water from the Transport Lines.
Do.	173	Providing screens of sheet iron to the latrines of Followers of Bengal Cavalry.
Do.	104	Providing tree guards and the drain along the Elephant Road to take off water from troughs of branch Veterinary Hospital.
Do.	30	Constructing sinks and cooking chambers in cook-houses Nos. 31—4 and 32—5, British Infantry Lines.
Do.	71	The iron latrines of the Bengal Cavalry Followers removed to another site.
Do.	32	Perforated zinc sheets to doors of cook-houses in British Infantry Lines.
Do.	70	Improving the officers' ward in the Section Hospital by fixing two large clerestory windows giving more ventilation.
Do.	35	Perforated zinc sheets shades to outside of windows of the Station Hospital.
Do.	107	Ventilations to stables Nos. 13, 14, 15 and 17 of the Bengal Cavalry Lines.
Do.	32	Perforated zinc sheets to the doors of cook-house No. 3 in the Bengal Cavalry Lines.
Do.	122	Teak-wood doors with perforated zinc sheets to cook-houses Nos. 9—1 and 10—2 in the Royal Artillery Lines.
Do.	52	An extra trough for drinking water in the Royal Artillery Lines.
Do.	171	Cook-houses Nos. 9—1 and 10—2 in the Royal Artillery Lines provided with meat safes.
Do.	435	Providing Staff Sergeants' and married men's quarters and barracks of the Royal Artillery Lines with meat safes.
Do.	971	Re-constructing single men's latrine No. 91—3 in the British Infantry Lines.
Do.	142	Constructing a Larymore boiler at the Cantonment Dairy.
Do.	41	A line of water-pipe has been laid to the Cantonment Dairy.
Do.	51	Improving the latrine in the compound of Royal Engineer's Office.
Do.	36	Constructing a drain in the compound of the Government Telegraph Office.
Do.	170	Constructing a Neemuch stone drain round the Cantonment Dairy.
Neemuch	61	Constructing tree guards and planting trees over wash-house drains in British Infantry Lines.

APPENDIX IV—*continued.*

Station.	Actual cost in 1899.	Description of Military Works, Sanitary, undertaken during the year 1899.
1	2	3
Mhow District—continued.		
Neemuch... ...	28	Providing meat safe for cook-house No. 15 in British Infantry Lines.
Do.	90	Coal tarring walls and renewing floors of Chief Veterinary Hospital.
Do.	11	Planting trees and providing tree guards in Royal Artillery Lines.
Do.	38	Improving ventilation in the Non-Commissioned Officer's room No. 13, Liquor Bar, Royal Artillery Lines.
Do.	64	Erecting a boiler for disinfecting clothing and bedding of patients in Station Hospital.
Do.	168	Providing hand pumps for the Larymore boilers in the Royal Artillery and British Infantry Lines.
Do.	68	Constructing a urinary for stables in the Royal Artillery Lines.
Do.	27	Roofing the incinerator for burning dejecta of enteric and cholera patients at the Station Hospital.
Do.	26	Improving wash-houses Nos. 4—2 and 9—2 by removing the existing water tanks and replacing by larger ones.
Do.	97	Improving the cook-houses in the British Infantry and Royal Artillery Lines by providing meat safes and altering the positions of water tanks.
Do.	190	Providing cook-house No. 3—1 of Royal Artillery Institute with a cooking chamber.
Do.	180	Deepening well No. 9 in Native Cavalry Lines to a further depth of 7 feet.
Do.	4,368	Introduction of improved system of conservancy in Bazar and Cantonment.
Indore	302	Renewing the terraced roofs of the Day and Sergeants' rooms of the European Infantry Barracks.
Do.	143	Paving the cook-houses of the married quarters of the European Infantry with Neemuch stone.
Do.	248	Laying Neemuch stone pavement in the bar and godown of the European Infantry Canteen.
Do.	9	Providing a trough urinal for the British Infantry Barracks.
Do.	493	Additions and alterations to the cook-house attached to the European Infantry Barracks.
Do.	32	Constructing a new cinerator for the Station Hospital, Indore.
Do.	8,172	Dismantling and re-constructing Pendals Nos. 6, 7, 9, 11 and 12 in the Native Infantry Lines, Indore.
Do.	236	Constructing new moveable iron latrines for the Native Infantry Lines.
Asirgarh	.....	None.
Deesa District.		
Deesa	751	Providing stone flooring in cook-houses Nos. 61 and 62, European Infantry Lines.
Do.	82	Constructing disinfecting boiler for Station Hospital.
Do.	34	Constructing a dust bin in the compound of Staff and Followers Hospital.
Ahmedabad ...	554	Laying on water to the Royal Artillery stables.
Do.	35	Constructing a moveable latrine of three seats iron (Deesa pattern) for Royal Artillery syces.
Do.	46	Providing a roof over the incinerator at the Station Hospital.

APPENDIX IV—*continued.*

Station.	Actual cost in 1899.	Description of Military Works, Sanitary, undertaken during the year 1899.
1	2	3
Ahmedabad ...	45	Meat safes to the cook-houses of British Infantry Barracks.
Do.	87	Laying on pipe water to the Plunge Bath in the European Lines.
Rájkot	116	Military wells have been cleaned out and maintained in good order.
Do.	79	Providing stone drains on both sides of the Cavalry water-trough.
Do.	775	Providing French and Mangalore tiled flooring to the Native Infantry Hospital.
Mount Abu ...	.....	None.
Kotra and Kherwada (Mount Abu Division).	.....	None.
Erinpura (Mount Abu Division.)	.....	None.
Nágpur District.		
Kamptee and Sitabuldee.	108	Extending the masonry drain from Native Infantry Lines to a distance of 124 yards.
Do. do. ...	7,518	No. 44 Section Hospital has been remodelled and re-roofed.
Do. do. ...	604	Re-constructing verandah in rear of Guard Room Grand Magazine.
Do. do. ...	5,420	Re-roofing Nos. 33, 50 and 50.
Ráipur	.....	None.
Sambalpur ...	46	Collecting metal and murum for the cantonment road.
Do.	12	Cleaning out wells in the cholera encamping ground.
Do.	48	Cleaning out wells of the cantonment.
Sind District.		
Karáchi	.....	None.
Ghizri Sanitarium ...	.....	None.
Aden District.		
Aden	517	Providing three Horboury's pattern latrines for Native followers at Steamer Point.
Do.	4	Providing ventilation to latrines Nos. 50 and 57 attached to Royal Artillery Lines, Steamer Point.
Do.	300	Filling in some isolated cesspits and giving receptacles instead, above the ground level.
Do.	81	Providing the glazed earthen pans, in lieu of iron ones previously used in the latrines and raising the floors of the latrines by 4″ in order to suit the height of these utensils.
Do. Isthmus position .	.....	None.
Do. Crater position ...	189	Providing one Horboury's patent latrine of two seats for the Commissariat menial servants attached to the Government Bakery.

APPENDIX V.

Statement showing the entire Income in each Municipality and Allotment for Sanitary Purposes during the year 1898-99.

Municipalities.	Population as per Census of 1891.	Income (from all sources), 1898-99.	Rate per cent. of sanitary allotment to estimated income.	Rate per cent. of sanitary expenditure to amount sanctioned.	Sanitary allotment.		Conservancy.		Improvement of Town-sites.		Improvement of Water-supply, including cleaning, repairing, &c.		Sanitary arrangements during Fairs and Festivals.		Construction and repairs of Markets and Slaughter-houses.		Other sanitary objects, including construction and repairs of Tanks, &c.		Brief notes on important sanitary works undertaken or completed during the year.
					Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
NORTHERN DIVISION.		Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Ahmedabad District.																			
1. Ahmedabad	143,664	4,00,174	54·71	96·19	2,18,951	2,10,607	98,281	94,039	2,000	429	85,555	84,106	80	60	7,061	6,986	25,974	24,987	The third Engine of the water works was put up at the Dudheshwar water-works.
2. Dholka...	16,489	20,255	70·57	39·86	14,294	5,697	4,397	3,922	1,350	1,329	230	148	...	...	60	...	8,257	298	The Malas Tank improvement and Western Drainage Channel works are taken in hand.
3. Viramgám	23,010	35,855	23·47	100·	8,414	8,414	6,860	6,860	...	...	60	60	...	...	...	...	1,494	1,494	
4. Paránti	8,764	7,777	25·19	73·61	1,959	1,442	1,343	1,149	450	204	166	89	...	...	...	...	...	...	
5. Modása	7,031	6,222	21·47	81·81	1,336	1,093	661	617	550	420	125	56	...	...	...	...	...	...	
6. Dhandhuka	9,576	12,477	24·29	75·06	3,031	2,275	2,192	1,846	...	...	505	207	...	...	...	...	334	222	
7. Gogha	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Statements not received.
8. Sánand	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
9. Dholera	10,087	9,000	48·16	91·13	4,386	3,997	1,382	1,382	...	...	...	...	...	...	...	...	...	...	
10. Mándal	8,028	5,159	14·50	88·21	748	660	588	587	60	11	100	62	...	...	...	...	3,004	2,615	
11. Ránpur	5,838	6,365	22·72	89·84	1,446	1,298	496	492	150	125	780	661	...	...	...	...	...	...	
																	20	20	
Total ...	232,487	5,03,284	50·58	92·50	2,54,565	2,35,483	1,16,200	1,10,894	4,560	2,518	87,521	85,389	80	60	7,121	6,986	39,083	29,636	
Kaira District.																			
12. Kaira	10,101	9,041	61·53	95·78	5,563	5,338	2,468	2,446	1,765	1,733	30	13	1,300	1,146	...	...	...	...	
13. Mehmadabad	7,842	5,700	26·95	93·42	1,536	1,435	787	745	620	564	129	126	...	...	...	...	...	...	
14. Nadiád	29,048	50,078	44·07	68·15	22,069	15,041	12,768	8,172	...	...	420	150	...	...	113	104	8,768	6,615	
15. Kapadvanj	14,805	24,335	20·25	86·66	4,928	4,270	2,821	2,623	1,825	1,406	282	241	...	...	...	...	...	...	A new metalled road constructed from the Municipal office to the Mitha Talávgate.
16. Dákor	9,487	12,199	49·31	22·40	6,005	1,345	2,000	1,209	...	...	1,005	76	...	...	...	...	3,000	60	
17. Borsad...	12,160	8,619	26·86	78·88	2,315	1,826	1,930	1,604	250	155	75	7	...	...	...	...	60	60	
18. Anand	9,214	6,590	22·32	87·90	1,471	1,293	1,056	956	400	322	15	15	...	...	...	...	...	...	
19. Umreth	15,638	12,387	45·15	...	5,630	3,846	2,657	2,535	920	670	65	23	...	...	...	...	1,988	5,618	
20. Od	8,082	6,608	21·09	93·40	1,592	1,487	1,037	969	10	...	545	518	...	...	...	...	...	...	
21. Mahud'a	9,436	7,363	13·62	86·51	1,003	868	783	773	125	85	95	10	...	...	...	...	...	...	
Total ...	125,813	1,42,900	36·47	80·11	52,112	41,719	28,307	22,032	5,915	4,035	2,661	1,179	1,300	1,146	113	104	13,816	12,353	

Panch Mahals District.																			
22 Godhra...	14,691	16,892	20·13	91·18	3,401	3,101	2,651	2,554	...	...	250	118	...	...	...	...	500	429	
23 Dohad...	12,935	13,047	44·91	94·28	5,860	5,525	2,155	1,841	2,200	2,179	...	...	...	...	...	...	1,505	1,505	
24 Kálol	4,696	3,776	18·06	43·26	682	295	252	247	240	6	190	42	...	...	...	...	...	...	
Total ...	31,722	38,715	29·49	89·72	9,943	8,921	5,058	4,642	2,440	2,185	440	160	...	...	...	...	2,005	1,934	
Broch District.																			
25 Broach...	40,168	1,04,185	57·70	80·45	60,119	48,366	28,320	24,695	...	...	4,175	2,048	...	...	2,100	831	25,524	20,792	
26 Anklesvar	10,625	19,360	73·76	95·67	14,280	13,662	3,578	3,138	...	...	220	139	...	...	55	37	10,427	10,348	
27 Jambusar	12,079	12,400	29·30	85·60	3,633	3,110	2,823	2,301	810	809	...	...	...	...	...	...	...	...	
28 Hánsot	4,435	2,915	21·92	...	639	641	473	472	50	39	40	48	...	...	...	...	76	*82	* Includes Rs. 26 for contribution towards vaccination charges, and Rs. 56 on account of charges for erecting Plague sheds.
29 Ámod	5,007	6,079	34·87	79·95	2,120	1,695	1,570	1,390	300	284	250	21	...	...	...	...	...	...	No special works of Sanitary improvements were undertaken.
Total ...	72,314	1,44,939	55·74	83·52	80,791	67,474	36,764	31,996	1,160	1,132	4,685	2,256	...	...	2,155	868	36,027	31,222	
Surat District.																			
30 Surat	108,693	6,33,950	40·51	81·65	2,56,832	2,09,712	61,588	49,156	27,541	16,926	74,399	47,210	...	...	3,459	2,861	89,845	93,559	Works connected with ordinary repairs to latrines were completed. The pure potable water is supplied in the city and is acknowledged of a superior quality.
31 Ránder	10,926	18,727	26·41	76·70	4,945	3,793	1,890	1,547	2,489	1,886	253	53	...	...	35	35	278	272	
32 Bulsár...	14,779	21,548	28·20	81·99	6,076	4,982	5,917	4,839	...	...	159	143	...	...	...	...	...	...	
33 Mándvi	3,965	6,296	16·98	63·61	1,069	680	844	562	30	23	130	31	...	...	13	12	52	52	
Total ...	138,363	6,80,521	39·52	81·50	2,68,922	2,19,167	70,239	56,104	30,060	18,835	74,941	47,437	...	...	3,507	2,908	90,175	93,883	
Thána District.																			
34 Thána...	16,839	42,537	21·81	92·97	9,279	8,626	7,691	7,234	...	...	1,148	989	...	...	440	403	...	...	
35 Kurla	11,406	34,230	43·26	92·87	14,807	13,751	5,213	4,898	...	...	6,750	6,569	...	...	244	170	2,600	2,114	
36 Bándra	17,465	74,651	54·02	90·91	40,330	36,663	13,280	11,356	...	...	18,028	16,530	...	...	596	433	8,426	8,344	
37 Bassein	11,182	11,965	17·88	95·37	2,139	2,040	780	756	406	396	50	...	...	...	20	2	883	886	
38 Máhim-Kelva... ...	6,923	4,450	21·64	96·59	963	930	90	87	858	831	15	12	...	...	...	...	...	...	
39 Bhiwndi	14,213	19,537	30·49	96·51	5,957	5,749	5,569	5,466	...	...	...	...	111	97	277	186	...	...	
40 Kalyán	11,685	16,391	35·65	88·55	5,844	5,175	5,194	4,773	200	188	400	192	...	...	50	22	...	...	
Total ...	89,713	2,03,761	34·59	91·11	79,319	72,934	37,817	34,570	1,464	1,415	26,391	24,292	111	97	1,627	1,216	11,909	11,344	
CENTRAL DIVISION.																			
Ahmednagar District.																			
41 Ahmednagar	36,033	79,319	31·58	95·50	25,048	23,921	21,627	20,880	...	...	...	...	...	...	2,270	1,981	1,151	1,060	
42 Bhingár	5,490	7,480	32·49	86·15	2,426	2,090	1,926	2,079	...	...	500	7	...	...	...	4	...	...	
43 Sangamner	10,633	16,192	17·26	87·73	2,795	2,452	2,715	2,395	...	...	80	57	...	...	...	...	...	...	
44 Vámbori	5,159	6,265	48·62	57·09	3,046	1,739	2,396	1,117	50	30	600	592	...	...	...	...	...	...	A new well has been constructed and water is made available by means of a moat.
45 Kharda	6,059	3,008	22·93	100·00	690	690	654	654	...	...	36	36	...	...	...	...	...	...	
Total ...	63,374	1,12,264	32·96	90·85	34,005	30,892	29,318	27,125	50	30	1,216	692	..	...	2,270	1,985	1,151	1,060	

APPENDIX V—*continued.*

Municipalities.	Population as per Census of 1891.	Income (from all sources), 1898-99.	Rate per cent. of sanitary allotment to estimated income.	Rate per cent. of sanitary expenditure to amount sanctioned.	Sanitary allotment.		Conservancy.		Improvement of Town-sites.		Improvement of Water-supply, including cleansing, repairing, &c.		Sanitary arrangements during Fairs and Festivals.		Construction and repairs of Markets and Slaughter-houses.		Other sanitary objects, including construction and repairs of Tanks, &c.		Brief notes on important sanitary works undertaken or completed during the year.
					Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
Khándesh District.		Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
46. Amalner	7,958	7,163	37·81	70·16	2,708	1,900	624	607	1,135	467	100	74	25	4	...	...	824	748	
47. Párola	14,539	7,427	42·88	51·11	3,185	1,628	1,300	1,150	...	...	700	124	...	...	25	10	1,160	344	*Nil.*
48. Erandol	12,557	7,746	29·71	88·61	2,301	2,039	2,196	1,971	...	...	50	38	...	...	55	30	...	...	
49. Dharangaon	14,357	5,972	64·84	89·88	3,872	3,480	3,441	3,181	150	149	100	61	...	...	181	89	...	...	Two enclosures of mud wall are constructed on two sides of the town for female privy.
50. Bhadgaon	7,287	3,200	28·12	75·00	900	675	600	548	...	...	...	...	...	...	...	...	300	127	
51. Máheji (temporary) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	As the fair was stopped on account of plague, there was neither income nor expenditure.
52. Chopda	15,535	10,131	26·90	63·01	2,725	1,717	1,725	1,045	...	...	100	86	...	...	100	62	800	524	300 feet gutter work has been completed during the year.
53. Shirpur	7,864	10,638	51·56	69·13	5,484	3,791	1,707	1,505	1,875	1,530	625	541	5	...	1,002	1	270	214	Three branch roads with masonry gutters (length 1,281 running feet) has been completed during the year.
54. Sindkheda	4,293	1,973	100·00	100·00	1,973	1,973	1,758	1,758	165	165	50	50	...	...	...	...	...	...	
55. Betávad	3,464	2,529	43·20	50·50	1,093	552	678	492	275	15	15	4	...	...	125	41	...	...	
56. Sávda	7,142	10,801	23·10	80·84	2,495	2,016	1,813	1,602	667	407	15	7	...	...	...	...	...	...	
57. Yával	10,801	8,778	8·93	...	784	1,060	30	1,060	...	...	...	...	...	...	754	...	...	...	
58. Bhusával	11,445	15,842	43·22	95·37	6,847	6,530	3,000	2,996	770	625	...	...	—	...	727	575	2,350	2,334	Stone gutters for removing dirty water were constructed.
59. Jalgaon	14,538	29,244	29·61	81·54	8,658	7,060	7,055	5,869	...	...	869	744	...	...	334	276	400	171	560 running feet new v shaped gutters constructed.
60. Dhulia	21,888	70,740	22·09	87·64	15,627	13,695	7,548	6,768	3,237	2,834	1,400	1,225	...	...	570	467	2,872	2,401	
61. Songir	4,616	2,282	25·25	81·88	574	470	220	123	...	...	336	329	...	...	...	...	18	18	
62. Taloda	6,292	4,360	28·67	88·24	1,250	1,103	1,225	1,080	...	...	25	23	...	...	...	...	...	...	
63. Sháhada	5,441	4,290	93·80	89·76	4,024	3,611	1,484	1,453	100	99	55	30	...	...	1,561	1,546	824	483	Two slaughter-houses and mutton, fish and beef markets and bázár ottas were constructed.
64. Prakásh	3,776	1,410	43·12	85·86	608	522	601	520	...	...	7	2	...	...	...	...	...	...	
65. Nandurbár	7,666	11,300	75·43	69·29	8,524	5,907	2,200	2,002	2,500	2,401	800	407	...	...	...	...	3,024	1,097	
66. Faizpur	9,482	6,638	24·75	70·66	1,643	1,161	843	830	600	194	125	100	...	...	...	...	75	37	*Nil.*
67. Ráver	6,788	1,580	55·32	76·43	874	668	150	116	704	536	20	16	...	...	...	...	...	...	New roads and gutters are being laid out.
Total ...	197,729	2,24,044	33·99	80·84	76,149	61,558	40,198	36,676	12,178	9,422	5,392	3,861	30	4	5,434	3,097	12,917	8,498	
Násik District.																			
68. Malegaon	15,503	16,724	35·10	89·25	5,869	5,237	5,264	4,760	...	...	400	381	...	...	205	96	...	...	*Nil.*
69. Yeola	18,861	36,320	...	97·26	37,574	36,533	6,820	5,869	...	...	29,795	29,795	...	...	500	471	459	398	
70. Násik	24,400	67,849	42·51	97·83	28,846	28,219	16,133	15,429	...	...	550	668	...	—	50	10	12,113	*12,112	* This expenditure was incurred on account of plague measures.
71. Sinnar	8,319	13,960	15·87	93·63	2,215	2,074	1,171	1,142	...	...	89	22	...	...	...	...	955	910	*Nil.*
72. Igatpuri	6,814	7,700	91·77	74·94	5,295	5,295	2,204	2,204	2,718	2,718	281	281	86	86	6	6	...	...	
73. Trimbak	4,084	5,070	29·88	82·64	1,515	1,252	1,215	1,094	...	...	300	158	...	...	...	...	...	...	*Nil.*
	77,981	1,47,623	56·28	94·61	81,314	78,610	32,807	30,498	2,718	2,718	31,415	31,305	86	86	761	583	13,527	13,420	

Poona District.																			
74. Poona City	118,647	3,40,211	67·09	92·98	2,28,258	2,12,227	1,18,208	1,13,845	9,899	3,844	18,817	17,152	...	...	5,631	5,225	75,703	72,161	*Nil.*
75. Sásvad	5,684	3,250	52·43	63·03	1,704	1,074	1,219	962	275	46	105	52	15	4	30	...	60	10	
76. Jejuri...	3,479	1,470	18·10	73·31	266	195	176	159	...	...	65	28	25	8	...	...	...	...	*Nil.*
77. Bárámati	5,410	12,180	30·64	...	3,732	4,124	3,252	3,779	290	224	190	121	...	...	...	...	...	...	
78. Indápur	5,246	3,833	24·11	96·32	924	890	899	865	10	10	...	...	...	...	...	...	15	15	Halálkhor service is introduced and 2 Bhangis to remove night-soil from road and open sites are appointed. Night-soil is taken out of the town.
79. Sirúr	5,574	13,153	37·97	77·05	4,994	3,848	3,216	2,505	65	1	1,035	900	...	...	100	84	578	358	
80. Talegaon Dábháda ...	4,476	10,212	12·94	68·21	1,321	900	1,035	665	...	...	...	...	...	...	75	70	211	165	
81. Lonávla	3,582	9,155	65·47	52·18	5,994	3,128	3,500	2,180	...	...	1,000	325	...	...	394	168	1,100	455	
82. Khed	3,947	2,123	26·19	77·88	556	433	481	405	...	...	75	23	...	...	...	...	...	...	*Nil.*
83. A'landi	2,143	8,819	18·26	50·81	1,610	818	1,520	781	10	1	80	36	...	...	...	...	...	...	
84. Junnar	11,984	10,604	23·15	70·92	2,455	1,741	1,365	963	...	...	300	237	570	503	...	...	220	38	
85. Poona Suburban M.	7,910	25,022	35·86	86·96	8,974	7,804	7,524	6,606	250	...	1,200	1,198	...	...	...	...	...	...	
Total ...	178,082	4,40,032	59·27	90·95	2,60,788	2,37,182	1,42,395	1,33,715	10,799	4,126	22,867	20,077	610	515	6,230	5,547	77,887	73,202	
Sátára District.																			
86. Sátára	25,749	1,10,300	10·45	...	11,531	12,522	8,131	7,467	...	...	2,300	4,115	...	...	1,100	910	...	...	
87. Wái	12,473	13,011	40·64	89·96	5,287	4,756	3,622	3,502	...	...	300	47	...	...	40	24	1,325	1,183	
88. Rahimatpur	6,674	4,149	9·09	82·49	377	311	302	293	50	10	25	8	...	...	...	...	...	...	
89. Karád...	12,080	13,670	28·75	89·50	3,933	3,520	2,987	2,240	...	...	380	601	...	...	66	2	500	677	This amount is spent on plague operations.
90. Islámpur	10,650	5,944	23·92	24·50	1,600	391	500	341	...	...	1,100	50	...	...	...	...	...	...	*Nil.*
91. Ashta	11,402	6,809	11·56	44·36	788	349	507	301	...	...	271	46	...	...	10	2	...	...	
92. Tásgaon	11,251	8,074	19·15	90·10	1,546	1,393	1,072	1,053	200	120	50	9	...	...	...	...	224	211	
93. Vita	3,847	2,742	16·92	53·45	465	248	338	196	...	...	70	24	...	...	...	...	57	28	
94. Máyni	4,189	1,711	14·09	73·86	241	178	...	...	166	121	...	...	...	...	...	...	75	57	*Nil.*
95. Mhasvad	6,415	5,690	19·36	96·11	1,130	1,086	805	734	75	43	100	59	150	250	...	...	...	...	
96. Málcolmpeth ...	3,443	13,538	44·32	67·63	6,000	4,058	5,090	3,323	...	...	600	405	...	...	310	330	...	...	
97. Sátára Suburban M.	3,353	8,794	34·68	60·98	3,050	2,306	2,306	1,665	...	...	600	35	...	...	...	...	144	606	
Total ...	111,526	1,94,432	18·49	86·56	35,948	31,118	25,660	21,115	491	294	5,796	5,399	150	250	1,526	1,298	2,325	2,762	
Sholápur District.																			
98. Sholápur	61,915	3,24,768	64·01	45·92	2,07,891	95,460	19,925	16,311	1,400	391	47,465	37,289	1,24,785	29,484	545	385	13,771	11,600	
99. Bársi	20,575	29,998	22·36	94·57	6,708	6,344	6,507	6,259	...	...	183	79	...	...	18	6	...	...	*Nil.*
100. Karmála	6,165	9,753	26·56	...	2,591	3,118	1,381	1,189	25	15	1,115	1,896	20	...	50	18	...	...	The existing latrines were repaired. The parapet to the large well was repaired.
101. Pandharpur	19,976	42,509	52·55	76·66	22,337	17,123	9,946	8,553	...	...	480	284	5,100	3,337	239	117	6,572	4,832	
102. Sángola	5,748	5,169	33·25	85·98	1,697	1,458	355	318	...	...	1,100	1,013	...	...	...	...	242	127	The water-supply work, which was commenced in 1896-97, was completed during the year.
Total ...	114,379	4,12,197	58·52	51·20	2,41,224	1,23,503	38,114	32,630	1,425	406	50,343	40,561	1,29,905	32,821	852	526	20,585	16,559	
SOUTHERN DIVISION.																			
Belgaum District.																			
103. Belgaum	27,952	56,790	54·12	100·00	30,635	30,635	30,448	30,448	...	...	...	...	...	...	171	171	16	16	
104. Nipáni	11,731	13,219	32·20	...	4,256	4,263	2,338	2,355	...	...	565	744	...	...	...	...	1,353	1,164	*Nil.*
105. Athni	10,405	17,155	39·77	82·65	6,823	5,639	3,562	3,120	1,725	1,222	...	...	...	...	163	139	1,373	1,158	*Nil.*
106. Gokák	12,106	8,815	38·37	68·47	7,720	5,334	4,750	3,808	1,468	122	172	8	1,400	1,396	...	...	...	...	*Nil.*
107. Saundatti Yallamma.	7,180	7,941	78·98	52·89	6,272	3,317	1,804	1,413	1,833	1,231	2,125	495	300	30	...	...	210	148	
108. Yamkanmardi ...	5,752	1,704	30·11	100·00	513	513	...	...	...	...	52	52	...	...	...	...	461	461	
Total ...	75,126	1,05,624	53·29	88·30	56,289	49,701	42,902	41,144	5,026	2,575	2,914	1,299	1,700	1,426	334	310	3,413	2,947	

Municipalities.	Population as per Census of 1891.	Income (from all sources) 1898-99.	Rate per cent. of sanitary allotment to estimated income.	Rate per cent. of sanitary expenditure to amount sanctioned.	Sanitary allotment.		Conservancy.		Improvement of Town-sites.		Improvement of Water-supply, including cleaning, repairing, &c.		Sanitary arrangement during Fairs and Festivals.		Construction and repairs of Markets and Slaughter-houses.		Other sanitary objects, including construction and repairs of Tanks, &c.		Brief notes on important sanitary works undertaken or completed during the year.
					Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
Dhárwa'r District.		Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
109. Dhárwár	32,672	54,576	28·81	70·66	15,726	11,112	14,640	10,848	200	79	312	86	...	...	574	99	...	...	
110. Hubli...	50,782	1,50,892	60·03	90·41	90,583	81,892	73,251	68,623	500	...	12,082	12,902	...	...	550	367	4,200	...	Those works that were necessary to be undertaken were put a stop to on account of plague and the amount allotted therefor utilized for plague purposes.
111. Gadag-Betgeri ...	23,208	42,947	56·58	100·00	24,300	24,300	2,669	2,669	...	...	70	70	...	...	...	...	21,561	21,561	
112. Navalgund	9,040	8,841	15·29	78·11	1,352	1,056	912	769	200	67	240	220	...	...	...	...	...	...	
113. Yamnur	984	1,363	11·74	96·87	160	155	60	55	...	...	100	100	...	...	...	...	...	...	
114. Nargund	9,449	5,643	28·69	95·31	1,619	1,543	701	632	...	...	100	82	...	...	...	...	...	...	
115. Ránebenur	12,559	6,700	29·27	74·35	1,961	1,458	1,111	1,078	600	245	150	135	...	...	...	...	818	829	*Nil.*
116. Guddguddápur ...	768	800	66·75	4·49	534	24	...	...	200	...	300	...	34	24	100	...	...	...	
117. Byádgi	4,460	10,961	89 86	59·66	9,850	5,877	2,473	1,703	4,217	2,247	3,160	1,927	...	...	...	...	...	...	
118. Háveri	5,652	5,681	30·49	30·49	1,732	2,222	1,156	1,679	416	383	160	157	...	...	...	...	...	3	*Nil.*
Total ...	149,574	2,88,404	51·25	87·70	1,47,817	1,29,639	96,973	88,056	6,333	3,021	16,674	15,679	34	24	1,224	466	26,579	22,393	
Bijápur District.																			
119. Bijápur	16,717	26,310	60·21	68·20	15,842	10,804	11,292	8,657	...	...	2,096	1,333	...	...	2,024	384	430	430	Drainage.—A sum of Rs. 1,032 was spent in constructing a masonry gutter in the new Bazár. Water-supply.—A sum of Rs. 733 was given to the Public Works Department for specially repairing the reservoir No. 14 in the Jumma Masjid Peith. A sum of Rs. 2,717-13-5 was spent in taking precautionery measures for Plague.
120. Bágalkot	17,897	26,254	32·92	77·27	8,644	6,679	6,644	4,941	...	...	100	2	...	...	100	32	1,800	1,704	Rs. 1,704 were expended for precautionery measures against Plague and Cholera.
121. Ilkal	11,201	7,633	21·28	81·83	1,624	1,329	1,624	1,323	...	...	...	...	...	...	...	*6	...	...	*The amount of Rs. 6 incurred on account of slaughter-house is for the preceding year.
122. Guledgud	15,354	14,939	19 66	75·02	2,934	2,201	2,584	2,151	...	...	350	50	...	...	...	...	...	...	
Total ...	61,169	75,136	38·66	72·35	29,044	21,013	22,144	17,072	...	...	2,546	1,385	...	...	2,124	422	2,230	2,134	
Kánara District.																			
123. Kárwár	14,293	13,880	19·09	93·06	2,650	2,467	2,400	2,397	...	...	50	5	...	...	100	31	100	34	*Nil.*
124. Kumta	10,640	17,081	9·67	...	1,651	1,689	1,203	1,327	198	166	40	40	...	...	210	156	...	...	*Nil.*
125. Sirsi	6,644	9,000	39·72	57·34	3,575	2,050	2,375	1,829	...	...	800	45	...	...	50	7	350	169	

126. Haliyál	6,180	6,125	26·78	77·32	1,640	1,267	1,120	1,040	20	...	200	25	...	...	100	79	200	123	*Nil.*
127. Gokarn	4,342	475	46·95	73·54	223	164	73	65	80	36	15	10	55	53	...	...	...	...	Latrines have been constructed at the time of Shivaratri Fair and other times.
128. Ulvi (temporary) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	As the fair was not held on account of plague there was neither income nor expenditure.
129. Honávar	6,207	5,955	10·13	90 38	603	545	593	528	...	...	10	17	...	...	...	...	...	...	*Nil.*
130. Bhatkal	5,940	4,147	14·08	100·00	585	585	585	585	...	...	...	...	...	...	...	...	...	...	
Total ...	54,246	56,663	19·46	80·23	10,927	8,767	8,349	7,771	298	202	1,115	142	55	53	460	273	650	326	
Ratnágiri District.																			
131. Vengurla	10,134	11,726	48·22	85·87	5,653	4,855	1,462	1,452	77	77	220	215	...	...	125	117	3,769	2,994	
132. Rájápur	7,446	7,992	22·27	98 65	1,780	1,756	320	299	...	...	1,460	1,457	...	...	...	...	...	...	
133. Ratnágiri	14,306	15,179	21·92	...	4,495	5,256	938	1,259	...	...	2,159	2,159	...	...	230	6	1,168	1,832	
134. Chiplún	11,378	11,360	53·62	65·59	6,091	3,995	2,890	1,482	...	...	868	493	...	...	...	...	2,333	2,020	
135. Dápoli	2,685	3,751	56·78	72·35	2,130	1,541	381	381	...	...	75	1	...	...	...	...	1,674	1,159	
Total ...	45,949	50,008	40·09	86·37	20,149	17,403	5,991	4,873	77	77	4,782	4,325	...	...	355	123	8,944	8,005	
Kolába District.																			
136. Alibág	5,809	11,044	27·07	92·41	2,990	2,763	2,721	2,532	...	...	269	231	...	...	...	...	...	...	*Nil.*
137. Pen	7,462	9,258	21·94	92·98	2,309	2,147	1,935	1,905	...	...	374	242	...	...	...	...	...	...	
138. Roha Ashtami ...	5,213	4,247	23·68	85·58	1,006	861	500	408	...	...	436	413	...	...	...	...	70	40	
139. Mahád	6,804	13,000	21·75	92·78	2,828	2,623	1,340	1,222	45	31	772	719	...	...	50	30	621	621	
140. Panvel	10,298	11,515	19·30	92·03	2,222	2,045	1,922	1,839	...	...	150	131	...	...	50	35	100	40	
141. Uran	11,422	5,410	40·58	...	1,836	1,858	1,596	1,634	...	...	100	143	...	...	50	31	90	50	
Total ...	47,007	54,474	24·22	93·22	13,191	12,297	10,014	9,540	45	31	2,101	1,879	...	...	150	96	881	751	
SIND DIVISION.																			
Karáchi District.																			
142. Karáchi	98,195	658,637	86·07	90·52	566,900	513,172	162,056	1,47,127	61,555	58.726	21,380	17,210	...	...	6.341	5,257	315,568	284,852	
143. Kotri	7,909	21,088	23·56	82·87	5,674	4,702	4,674	3,765	...	...	...	...	...	...	1,000	937	...	...	
144. Mánjhand	2,538	2,208	39·81	89 65	879	788	829	752	...	..	40	29	...	...	10	7	...	...	
145. Sehwan	4,624	14,665	71·38	84·34	10,468	8,829	2,771	2,270	7,437	6,351	100	95	100	78	60	35	...	...	
146. Bubak	2,880	6,876	57·90	79 60	3,951	3,169	1,312	1,235	2,229	1,762	250	139	...	...	190	33	...	...	
147. Tatta	8,969	25,558	27·77	91·07	7,098	6,464	4,709	4,458	1,200	949	800	732	...	...	389	325	...	...	
148. Keti Bandar	2,141	6,073	16·20	100·00	976	976	973	973	...	...	...	...	...	...	3	3	...	...	
Total ...	127,256	738,055	80·75	90·29	5,95,976	5,38,100	1,77,324	1,60,580	72,421	67,788	22,570	18,205	100	78	7,993	6,597	3,15, 68	284,852	
Hyderabad District.																			
149. Hyderabad	57,791	319,027	57 11	99·06	1,8?,210	1,80,506	37,500	41,391	400	108	1,38,210	136,830	...	...	900	492	5,200	1,685	Two new iron latrines were erected in the west of the town, while new water works engines were set up at the Fort Lift for supplying Cantonment with water from the Fort Reservoir.
150. Tando Muhammad Khán	4,126	9,573	52 08	90·67	4,986	4,521	1,861	1,672	...	...	100	46	...	...	250	162	2,775	2,641	
151. Hála	5,002	5,251	45·80	73·89	2,405	1,777	1,156	1,057	1,084	662	100	58	...	...	65	...	...	...	
152. Matári	5,815	8,591	57·91	51·32	4,975	2,553	1,150	928	480	98	2,650	1,088	...	...	95	69	600	370	
153. Tando Alahyár ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Statement not received.
154. Tando Adam	5,033	11,596	52·19	77·63	6,052	4,698	2,408	2,115	2,100	1,933	300	156	...	...	100	96	1,144	398	
155. Nasarpur	3,914	3,763	9·51	100·00	358	358	...	...	103	103	...	...	...	...	175	175	80	80	
Total ...	81,681	3,57,801	86·37	96·83	2,00,986	1,91,413	44,075	47,163	4,167	2,904	1,41,360	1,38,178	...	...	1,585	994	9,799	5,174	

APPENDIX V—*continued.*

Municipalities.	Population as per Census of 1891.	Income (from all sources) 1898-99.	Rate per cent. of sanitary allotment to estimated Income.	Rate per cent. of sanitary expenditure to amount sanctioned.	Sanitary allotment.		Conservancy.		Improvement of Town-site.		Improvement of Water-supply, including cleansing, repairing, &c.		Sanitary arrangements during Fairs and Festivals.		Construction and repairs of Markets and Slaughter-houses.		Other sanitary objects, including construction and repairs of Tanks, &c.		Brief notes on important sanitary works undertaken or completed during the year.
					Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
Thar and Párkar District.		Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
156. Umarkot	3,702	14,819	16·31	86·51	2,417	2,092	1,200	1,198	375	290	160	135	...	...	622	419	60	50	
157. Mithi	2,991	4,565	14·06	97·35	642	625	632	620	...	...	10	5	...	...	...	...	...	...	
Total ...	6,693	19,384	15·78	88·82	3,059	2,717	1,8 2	1,818	375	290	170	140	...	...	622	419	60	50	
Shikárpur District.																			
158. Shikárpur	41,979	1,15,459	53·13	86·38	61,346	52,990	31,760	0,66	14,610	10,719	9,846	9,401	...	...	4,830	2,519	300	185	*Nil.*
159. Sukkur	29,274	2,12,415	24·53	73·35	52,096	38,214	28,396	23,685	...	152	21,000	11,683	...	...	2,700	2,694	...	...	(1) New open space drains were constructed at a total cost of Rs. 2,069-1-8.
160. Garhi Yásin ...	5,960	15,705	8·38	...	3,814	3,814	3,314	3,314	500	500	...	...	...	...	...	...	...	...	(2) A new Beef Market, which was in course of construction at the end of 1897-98, was completed during the year.
161. Rohri	8,786	28,700	20·52	...	5,890	5,906	5,870	5,881	...	...	...	...	...	...	20	75	...	...	
162. Ghotki	3,288	9,755	21·01	85·85	2,050	1,760	1,500	1,402	50	39	300	247	...	...	200	72	...	...	
163. Lárkhána	11,805	55,611	25·99	85·10	14,453	12,300	9,445	7,980	3,000	2,731	608	517	...	...	700	298	700	774	The paving of the streets is progressing. One slaughter-house was paved.
164. Kambar	5,341	14,250	50·05	59·87	7,132	4,270	2,812	2,424	1,030	23	1,900	612	...	...	1,040	941	350	270	
165. Rato-dero	3,554	9,473	56·43	86·53	5,346	4,626	1,596	1,561	1,900	1,899	600	38	...	...	150	77	1,100	1,051	The main bazar was paved at a cost of Rs. 1,899.
Total ...	1,09,987	4,61,368	32·43	82·79	1,52,127	1,23,880	84,693	76,363	21,090	16,063	34,254	22,498	...	...	9,640	6,676	2,450	2,280	
Upper Sind Frontier District.																			
166. Jacobabad	8,294	80,066	48·98	76·88	39,215	30,147	9,605	8,614	...	...	430	203	...	...	29,040	21,082	140	248	A new market consisting of 38 shops was constructed at a cost of Rs. 20,291.
Grand Total ...	22,00,455	55,26,695	49·65	85·16	27,43,860	23,36,668	11,06,779	10,04,991	1,83,092	1,40,967	5,42,584	4,66,541	1,34,161	36,560	85,123	62,576	6,92,121	6,25,033	
Málegaon Cantonment ...	3,779	1,420	13·32	91·17	1,892	1,725	1,892	1,725	...	...	...	...	...	...	...	...	...	...	
Devláli Camp	2,294	1,200	...	94·43	2,813	2,713	2,538	2,538	200	100	...	...	75	75	...	...	...	...	

APPENDIX V.

Statement showing the entire Income from all sources and Allotment for Sanitation during the year 1898-99 in the District and Táluka Local Boards of the Bombay Presidency.

District Local Boards.	Population as per Census of 1891.	Area in square miles.	Number of Villages in the Circle.	Number of villages conserved (Village Sanitation Act).		Entire income of 1898-99.	Rate per cent. of allotment to estimated income.	Rate per cent. of sanitary expenditure to allotment.	1898-99.													
									Sanitary Allotment.		Conservancy.		Improvement of Village-sites.		Improvement of Water-supply, including cleansing, repairing and construction of Tanks and Wells.		Sanitary arrangements at Fairs and Festivals.		Construction and repair of Markets and Slaughter-houses.		Other sanitary objects, including construction and repair of Latrines, Dust-bins, Drains, &c.		Brief notes on Important Sanitary Works undertaken or completed during the year.
				Number of unions.	Number of other villages.				Total of Columns 12, 14, 16, 18, 20 and 22.	Total of Columns 13, 15, 17, 19, 21 and 23.													
									Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Northern Division.						Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
District Local Board, Ahmedabad.	920,928	3,821	1,184	...	...	1,37,733	22·92	...	31,670	...	...	...	...	...	31,670	...	...	...	...	...	...	...	
Táluka Local Board, Daskroi ...	295,258	348	176	...	2	7,883	...	44·58	11,434	5,097	...	...	...	...	11,434	5,097	...	...	...	...	...	...	
Do. do. Dholka ...	118,236	665	140	...	4	9,615	...	58·90	13,574	7,995	...	...	...	...	13,574	7,995	...	...	...	...	...	...	
Do. do. Dhandhuka ...	124,926	1,098	167	...	...	6,061	42·12	73·91	2,553	1,887	...	...	...	...	2,553	1,887	...	...	...	...	...	...	
Do. do. Viramgám...	145,263	677	193	...	...	4,696	43·48	...	2,042	2,357	..	...	...	...	2,042	2,357	...	...	...	...	...	...	
Do. do. Paránt ij ...	82,922	287	317	...	1	2,107	83·77	36·54	1,765	645	...	..	...	...	1,765	645	...	...	...	...	...	...	
Do. do. Modása ...	33,213	162		...	1	1,290	85·58	31·97	1,104	353	...	...	...	...	1,104	353	...	...	...	...	...	...	
Do. do. Sánand ...	88,089	360	125	...	2	4,960	89·88	56·24	4,458	2,507	...	...	...	...	4,458	2,507	...	...	...	...	...	...	
Do. do. Gogo ...	33,021	224	66	...	...	1,356	73·67	58·86	999	588	...	...	..	...	999	588	...	...	...	...	...	...	
Total ...	920,928	3,821	1,184	...	10	1,75,651	39·62	30·79	69,599	21,429	...	...	...	...	69,599	21,429	...	...	...	...	...	..	
District Local Board, Kaira ...	871,529	1,596	573	...	...	2,00,606	11·09	53·75	22,852	12,234	...	...	...	...	7,852	5,228	...	...	...	...	15,000	7,006	
Táluka Local Board, Mehmadabad	92,362	171	58	...	2	6,603	...	70·93	8,645	6,132	...	...	...	...	8,145	6,055	...	...	...	...	500	77	
Do. do. Matar ...	79,080	216	80	...	2	7,814	...	51·17	5,148	2,634	...	...	...	...	4,648	2,507	...	...	...	...	500	127	
Do. do. Thasra ...	95,605	257	96	...	2	7,562	...	12·29	12,085	1,485	..	...	...	...	11,585	1,020	...	...	...	...	500	465	
Do. do. Kapadvanj...	101,522	279	87	...	3	3,727	...	54·65	5,520	3,016	...	...	...	...	5,020	2,963	...	...	...	...	500	53	
Do. do. Nadiad ...	171,080	224	91	...	2	9,428	..	20·70	23,189	4,801	...	...	...	...	20,689	4,669	...	...	...	...	2,500	132	
Do. do. Borsad ...	162,122	205	89	...	2	9,805	...	29·25	12,904	3,775	...	...	...	...	10,904	3,416	...	...	...	...	2,000	359	
Do. do. Anand ...	169,758	244	72	...	2	9,629	...	26·76	17,407	4,659	...	...	...	...	15,362	4,197	...	...	..	...	2,045	462	
Total ..	871,529	1,596	573	...	15	2,55,169	42·43	35·95	1,07,750	38,736	...	...	...	...	84,205	30,055	..	...	.	...	23,545	8,681	
District Local Board, Panch Mahals	313,381	1,604	692	...	...	25,082	4·79	79·75	1,200	957	...	...	...	...	1,200	957	...	...	...	...	...	...	
Táluka Local Board, Godhra ...	107,531	584	238	...	...	4,876	37·26	87·89	1,817	1,597	...	...	...	...	1,817	1,597	...	...	...	...	...	...	
Do. do. Kálol ...	87,851	414	234	...	1	7,8 1	79·72	81·53	6,227	5,077	...	...	...	...	6,927	5,077	...	...	...	...	...	...	
Do. do. Dohad ..	117,999	606	220	...	3	5,981	61·73	72·26	3,692	2,668	175	115	75	28	2,856	2,256	...	...	...	...	586	269	
Total ...	313,381	1,604	692	..	4	43,700	29·60	79·62	12,936	10,299	175	115	75	28	12,100	9,887	...	...	...	...	586	269	

District Local Board, Broach ...	341,450	1,453	421	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Táluka Local Board, Broach ...	112,874	303	109	...	5	18,130	79·41	77·79	14,397	11,199	1,999	427	...	...	12,270	10,681	128	91	...	...	...	...	
Do. do. Vágra ...	36,939	304	69	...	...	26,322	51·98	85·63	13,682	11,716	...	...	...	...	5,295	5,130	...	...	...	...	8,387	6,586	
Do. do. A'mod ...	38,545	176	51	...	3	9,268	76·39	94·04	7,080	6,658	500	422	500	479	6,080	5,757	...	...	...	...	...	...	
Do. do. Jambusar ...	82,394	388	87	...	1	39,500	21·11	88·53	8,340	7,383	...	...	...	...	8,040	7,152	...	...	...	...	300	231	
Do. do. Anklesvar ...	70,698	287	105	...	3	11,300	82·33	88·29	9,360	8,264	...	...	...	...	7,130	6,388	...	...	...	...	2,230	1,876	
Total ...	341,450	1,453	421	...	12	1,04,520	50·27	85·55	52,859	45,220	2,499	849	500	479	38,815	35,108	128	91	...	...	10,917	8,693	
District Local Board, Surat ...	649,824	1,662	824	...	...	3,13,419	0·79	95·74	3,098	2,966	...	...	...	...	...	...	...	...	...	...	3,098	2,966	
Táluka Local Board Olpád ...	66,660	323	139	...	1	36,675	7·11	86·46	2,608	2,255	...	...	...	...	2,608	2,255	...	...	...	...	...	...	
Do. do. Chorási ...	159,087	110	78	...	1	20,138	8·30	76·96	1,671	1,286	...	...	...	...	1,671	1,286	...	...	...	...	...	...	
Do. do. Bárdoli ...	84,111	222	138	...	1	16,275	8·71	95·70	1,417	1,356	...	...	...	...	1,085	1,024	...	...	...	...	332	332	
Do. do. Jalálpur ...	78,648	189	95	...	...	10,480	37·93	97·08	3,975	3,859	...	...	...	...	3,975	3,859	...	...	...	...	...	...	
Do. do. Chikhli ...	61,315	167	63	1(2)	...	7,847	20·63	79·56	1,619	1,288	...	...	...	...	1,485	1,155	...	...	...	...	134	133	
Do. do. Bulsár ...	87,824	208	96	...	...	14,222	19·27	87·15	2,740	2,388	...	...	...	...	2,740	2,388	...	...	...	...	...	...	
Do. do. Párdi ...	68,242	163	80	...	1	4,650	29·14	99·27	1,369	1,359	...	...	...	...	1,035	1,025	...	...	...	...	334	334	
Do. do. Mandvi ...	58,937	280	135	...	...	5,383	43·92	95·81	2,364	2,175	...	...	...	...	2,364	2,175	...	...	...	...	...	...	
Total ...	649,824	1,662	824	1	4	4,29,089	4·86	90·75	20,861	18,932	...	...	...	...	16,963	15,167	...	...	...	...	3,898	3,765	
District Local Board Thána ...	818,967	3,769	1,689	...	...	1,09,768	8·97	99·27	9,346	9,775	532	457	...	...	9,314	9,318	...	...	..	...	...	...	
Táluka Local Board Sálsette ...	126,119	241	134	...	...	21,422	...	...	7,504	4,953	...	...	...	...	7,504	4,953	...	...	...	...	...	...	
Do. do. Bassein ...	76,092	216	92	...	...	4,054	69·15	63·86	2,803	1,790	...	...	...	...	992	179	...	...	...	...	1,811	1,611	
Do. do. Dahánu ...	134,388	643	212	...	1	8,395	32·20	18·39	2,708	497	400	233	...	...	2,303	264	...	...	...	...	...	...	
Do. do. Bhiwndi ...	87,444	232	200	...	...	3,469	54·34	40·48	1,685	763	...	...	...	...	1,685	763	...	...	...	...	...	...	
Do. do. Wáda ...	39,327	318½	167	...	...	1,499	72·58	97·52	1,088	1,061	60	60	...	...	1,028	1,001	...	...	...	...	...	...	
Do. do. Máhim ...	85,832	419	193	...	1	3,048	52·85	23·59	1,611	380	...	...	...	...	1,611	380	...	...	...	...	...	...	
Do. do. Kalyán ...	80,105	269½	236	...	1	9,773	60·17	61·54	7,835	4,822	2,135	1,943	50	...	5,340	2,574	...	...	...	...	310	305	
Do. do. Murbád ...	65,640	345	173	...	...	7,074	45·87	29·86	3,245	969	...	...	...	...	2,596	762	...	...	...	...	649	207	
Do. do. Shahpur ...	124,020	1,086	2:2	...	...	200	...	80·27	1,419	1,139	...	...	...	...	1,209	954	...	...	...	...	2·0	185	
Total ...	818,967	3,769	1,689	...	3	1,68,702	23·37	65·47	39,939	26,149	3,127	2,693	50	...	33,782	21,148	...	...	...	...	2,980	2,308	
Central Division.																							
District Local Board, Ahmednagar	887,656	6,594	1,362	...	...	1,51,958	0·37	82·20	568	467	...	...	...	...	568	467	...	...	...	...	...	...	
Táluka Local Board, Ahmednagar ...	123,359	625	114	...	...	5,098	39·47	63·22	2,012	1,272	...	...	...	...	2,012	1,272	...	...	...	...	...	...	
Do. do. Párner ...	78,971	730	117	...	1	2,554	13·51	100·	345	345	...	...	...	...	345	345	...	...	...	...	...	...	
Do. do. Shrigonda ...	66,657	618	86	...	1	2,425	37·11	50·	900	450	...	...	...	...	900	450	...	...	...	...	...	...	
Do. do. Karját ...	48,828	568	82	...	2	1,998	43·04	82·22	860	707	...	...	...	...	860	707	...	...	...	...	...	...	
Do. do. Jámkhed ...	76,208	460	76	...	2	2,160	20·42	90·70	441	400	...	..	...	..	441	400	...	...	...	...	...	...	
Do. do. Shevgaon ...	100,373	678	187	...	1	3,764	7·04	100·	265	265	...	...	...	...	265	265	...	...	...	...	...	...	
Do. do. Nevása ...	88,145	621	149	...	1	3,890	62·80	44·37	2,443	1,084	...	...	...	...	2,443	1,084	...	...	...	...	...	...	
Do. do. Rahuri ...	64,844	500	117	...	...	2,926	40·12	16·28	1,174	191	...	...	...	...	1,174	191	...	...	...	..	...	...	
Do. do. Kopargaon ...	89,337	520	125	...	...	3,570	11·06	100·	395	395	...	...	...	...	395	395	...	...	...	...	...	...	
Do. do. Sangamner ...	82,932	702	152	...	...	2,151	88·08	...	819	...	...	...	...	...	819	...	...	...	...	...	...	...	
Do. do. Akola ...	68,002	572	157	...	...	3,617	5·56	82·09	201	165	...	...	...	...	201	165	...	...	...	...	...	...	
Total ...	887,656	6,594	1,362	...	8	1,86,111	5·60	55·08	10,423	5,741	...	...	...	...	10,423	5,741	...	...	...	...	...	...	

District Local Boards.	Population as per Census of 1891.	Area in square miles.	Number of Villages in the Circle.	Number of Villages conserved.		Entire Income of 1898-99.	Rate per cent. of allotment to estimated Income.	Rate per cent. of Sanitary expenditure to allotment.	1898-99.												Brief notes on important sanitary works undertaken or completed during the year.
									Sanitary Allotment.		Conservancy.		Improvement of Village-sites.		Improvement of Water-supply, including cleansing, repairing and construction of Tanks and Wells.		Sanitary arrangements at Fairs and Festivals.		Construction and repair of Markets and Slaughter-houses.		Other sanitary objects, including construction and repairs of Latrines, Dust-bins, Drains, &c.		
				Number of Unions.	Number of other Villages.				Total of Columns 12, 14, 16, 18, 20 and 22.	Total of Columns 13, 15, 17, 19, 21 and 23.												
									Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
						Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
District Local Board, Khándesh .	1,460,319	10,454	3,317	...	...	3,46,636	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Táluka Local Board, Dhulia ...	98,128	759	189	...	...	7,039	23·10	38·41	1,627	625	...	...	...	...	1,627	625	...	...	...	...	...	...	
Do. do. Amalner ...	109,841	528	279	...	...	5,465	11·43	...	625	...	...	...	...	...	625	...	...	...	...	...	...	...	
Do. do. Erandol ...	105,806	460	229	...	...	3,157	19·80	97·26	625	608	...	...	...	...	625	608	...	...	...	...	...	...	
Do. do. Páchora ...	115,262	541	228	...	1	1,035	100·	95·46	1,035	988	...	...	...	...	1,035	988	...	...	...	...	...	...	
Do. do. Chálisgaon...	74,869	508	130	...	1	1,320	100·	100·	1,320	1,320	...	...	...	...	1,320	1,320	...	...	...	...	...	...	
Do. do. Pimpalner...	59,192	1,339	293	...	...	4,568	17·82	92·14	814	750	...	...	...	...	814	750	...	...	...	...	...	...	
Do. do. Nandurbár .	105,862	992	307	...	...	3,284	98·88	57·15	3,225	1,843	...	...	...	...	3,225	1,843	...	...	...	...	...	...	
Do. do. Taloda ...	82,910	1,177	300	...	...	1,933	60·99	99·91	1,179	1,178	...	...	...	...	1,179	1,178	...	...	...	...	...	...	
Do. do. Sháháda ...	64,733	479	194	...	...	3,440	100·	97·24	3,440	3,345	...	...	...	...	3,440	3,345	...	...	...	...	...	...	
Do. do. Sindkheda...	73,379	506	168	...	...	3,549	27·98	93·45	993	928	...	...	...	...	993	928	...	...	...	...	...	...	
Do. do. Shirpur ...	56,012	651	122	...	...	3,396	5·88	100·	200	200	...	...	...	...	200	200	...	...	...	...	...	...	
Do. do. Chopda ...	72,819	368	91	...	...	2,946	3·56	100·	105	105	...	...	...	...	105	105	...	...	...	...	...	...	
Do. do. Ráver ...	156,769	570	127	...	...	4,376	10·17	99·89	445	444	...	...	...	...	445	444	...	...	...	...	...	...	
Do. do. Yawal ...			111	...	...	4,302	4·28	100·	184	184	...	...	...	...	184	184	...	...	...	...	...	...	
Do. do. Bhusával ...	113,538	730	241	...	2	13,476	7·05	78·95	950	750	...	...	...	...	950	750	...	...	...	...	...	...	
Do. do. Jalgaon ...	83,969	319	111	...	...	3,914	8·30	85·54	325	278	...	...	...	...	325	278	...	...	...	...	...	...	
Do. do. Jámner ...	87,230	527	197	...	1	1,918	100·	58·55	1,918	1,123	...	...	...	...	1,918	1,123	...	...	...	...	...	...	
Total ...	1,460,319	10,454	3,317	...	5	4,15,754	4·57	77·16	19,010	14,669	...	...	...	...	19,010	14,669	...	...	...	...	...	...	
District Local Board, Násik ...	841,087	5,935	1,694	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Táluka Local Board, Násik ...	101,135	464	136	...	3	2,625	75·62	65·69	1,985	1,304	...	...	...	...	1,985	1,304	...	...	...	...	...	...	
Do. do. Sinnar ...	73,137	519	103	...	9	2,250	38·00	65·88	855	563	...	...	...	...	855	563	...	...	...	...	...	...	
Do. do. Igatpuri ...	69,072	373	130	...	1	1,185	50·63	91·17	600	547	...	...	...	...	600	547	...	...	...	...	...	...	
Do. do. Dindori ...	82,624	529	128	...	6	2,530	40·59	24·54	1,027	252	...	...	...	...	1,027	252	...	...	...	...	...	...	
Do. do. Niphád ...	92,363	411	121	...	8	2,850	37·09	57·33	1,057	606	...	...	72	57	985	549	...	...	...	...	...	...	
Do. do. Chándor ...	51,476	385	111	...	3	2,155	45·94	45·56	900	410	...	...	...	...	900	410	...	...	...	...	...	...	
Do. do. Yeola ...	65,806	402	120	...	3	2,500	36·00	9·44	900	85	...	...	...	...	900	85	...	...	...	...	...	...	
Do. do. Málegaon ...	86,228	775	154	...	...	5,325	28·17	53·73	1,500	806	...	...	...	...	1,500	806	...	...	...	...	...	...	
Do. do. Nandgaon ...	33,583	437	92	...	1	3,905	32·65	42·20	1,275	538	...	...	...	...	1,275	538	...	...	...	...	...	...	
Do. do. Báglán ...	65,647	619	163	...	...	3,715	18·71	49·78	695	346	...	...	...	...	695	346	...	...	...	...	...	...	
Do. do. Kalvan ...	58,694	563	190	...	1	2,135	42·15	43·67	900	393	...	...	...	...	900	393	...	...	...	...	...	...	
Do. do. Peint ...	61,052	458	246	...	...	11,505	31·90	97·28	367	357	...	...	...	...	367	357	...	...	...	...	...	...	
Total ...	841,087	5,935	1,694	...	35	42,680	28·26	51·46	12,061	6,207	...	...	72	57	11,989	6,150	...	...	...	...	...	...	

District Local Board, Poona ...	1,061,449	5,349	1,204	...	...	1,00,610	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Táluka Local Board, Junnar ...	115,762	591	163	...	6	4,883	21·28	100·	1,039	1,039	...	...	...	...	1,039	1,039	...	...	...	...	...	...	...
Do. do. Indápur ...	70,946	567	86	...	2	1,573	32·74	94·17	515	485	...	...	...	...	515	485	...	...	...	...	...	...	...
Do. do. Khed ...	162,389	876	244	...	4	3,733	38·90	73·42	1,452	1,066	...	...	200	200	1,252	866	...	...	...	...	...	...	...
Do. do. Sirur ...	85,202	601.	79	...	5	1,427	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. do. Purandhar ...	88,976	470	92	...	5	4,636	18·87	46·06	875	403	...	...	200	200	675	203	...	...	...	...	...	...	...
Do. do. Bhimthadi ...	140,203	1,035	130	...	14	3,751	42·34	93·01	1,588	1,477	...	...	...	...	1,588	1,477	...	...	...	...	...	...	...
Do. do. Haveli ...	331,490	823	242	...	9	7,182	24·26	34·10	1,742	594	...	...	...	...	1,742	594	...	...	...	...	...	...	...
Do. do. Mával ...	66,481	386	168	...	...	4,059	16·33	89·49	685	613	...	...	...	...	685	613	...	...	...	...	...	...	...
Total ...	1,061,449	5,349	1,204	...	45	1,31,864	5·98	71·90	7,896	5,677	...	...	400	400	7,496	5,277	...	...	...	...	...	...	...
District Local Board, Sátára ...	1,225,511	4,988	1,345	...	...	1,21,357	7·75	76·41	9,403	7,185	667	417	...	...	8,736	6,768	...	...	...	...	...	...	...
Táluka Local Board, Karád ...	160,868	395	99	...	...	4,590	40·57	80·77	1,862	1,504	...	...	...	...	1,862	1,504	...	...	...	...	...	...	...
Do. do. Válva ...	192,252	543	138	...	2	5,426	54·72	13·51	2,969	401	...	...	...	...	2,969	401	...	...	...	...	...	...	...
Do. do. Sátára ...	133,078	336	152	...	...	3,740	4·87	21·98	182	40	...	...	...	...	182	40	...	...	...	...	...	...	...
Do. do. Wái ...	109,466	392	126	...	...	2,679	17·62	...	472	...	...	...	...	...	472	...	...	...	...	...	...	...	...
Do. do. Jávli ...	59,375	419	252	...	...	2,250	13·47	97·03	303	294	...	...	...	...	303	294	...	...	...	...	...	...	...
Do. do. Khánápur ...	95,930	531	90	...	...	2,910	41·24	16·67	1,200	200	...	...	...	...	1,200	200	...	...	...	...	...	...	...
Do. do. Koregaon ...	92,249	349	73	...	...	4,586	15·26	...	700	...	...	...	...	...	700	...	...	...	...	...	...	...	...
Do. do. Mán ...	62,857	649	77	...	...	1,047	..	...	1,245	...	...	...	...	...	1,245	...	...	...	...	...	...	...	...
Do. do. Pátan ...	131,034	536	205	...	...	2,653	3·77	52·90	100	52	...	...	...	...	100	52	...	...	...	...	...	...	...
Do. do. Khatáv ...	95,217	497	85	...	1	1,503	74·45	90·17	1,119	1,009	...	...	...	..	1,119	1,009	...	...	...	...	...	...	...
Do. do. Tásgaon ...	93,185	341	48	...	4	1,938	97·80	45·68	1,876	857	...	...	...	...	1,876	857	...	...	...	...	...	...	...
Total ..	1,225,511	4,988	1,345	...	7	1,54,679	13·86	53·86	21,431	11,542	667	417	...	...	20,764	11,125	...	...	...	...	...	...	...
District Local Board, Sholápur ...	750,255	4,542	717	...	...	67,697	4·28	76·39	2,897	2,213	120	120	134	101	2,643	1,992	...	...	...	...	...	...	...
Táluka Local Board, Sholápur ...	180,222	848	152	...	...	5,283	5·33	100·	292	292	...	...	...	...	292	292	...	...	...	...	...	...	...
Do. do. Bársi ...	140,305	597	123	...	...	2,661	28·11	63·64	748	476	...	...	200	124	548	352	...	...	...	...	...	...	...
Do. do. Madha ...	92,658	619	89	...	...	2,831	30·73	26·32	870	229	...	...	120	119	750	110	...	...	...	...	...	...	...
Do. do. Karmála ...	93,352	772	123	...	...	2,684	30·81	65·85	829	546	...	...	...	...	829	546	...	...	...	...	...	...	...
Do. do. Pandharpur ...	91,260	478	86	...	1	2,317	24·82	100·	575	575	...	..	...	...	575	575	...	...	...	...	...	...	...
Do. do. Sángola ...	78,420	654	75	...	...	1,910	59·11	91·94	1,129	1,038	...	...	75	75	1,054	963	...	...	...	...	...	...	...
Do. do. Málsiras ...	74,038	574	69	...	...	1,813	56·54	99·80	1,025	1,023	...	...	100	98	925	925	...	...	...	...	...	...	...
Total ...	750,255	4,542	717	...	1	87,196	9·59	76·41	8,365	6,392	120	120	629	517	7,616	5,755	...	...	...	...	...	...	...
Southern Division.																							
District Board General, Belgaum ...	1,011,453	4,656	1,133	...	...	1,09,928	5·27	88·47	5,794	5,126	...	...	...	...	5,794	5,126	...	...	...	...	...	...	...
Táluka Local Board, Belgaum ...	145,383	663	203	...	...	2,845	16·77	59·33	477	283	...	...	...	...	477	283	...	...	...	...	...	...	...
Do. do. Chikodi ...	295,303	840	215	...	2	3,654	23·43	88·43	856	757	733	733	...	...	123	24	...	...	...	...	...	...	...
Do. do. Athni ...	123,437	786	82	...	2	2,678	15·50	48·19	1·5	200	415	200	...	...	...	...	...	...	...	...	...	...	...
Do. do. Gokák ...	118,540	670	119	...	1	1,835	10·90	...	200	...	200	...	...	...	...	...	...	...	...	...	...	...	...
Do. do. Parasgad ...	110,582	640	133	...	...	287	...	72·73	8 5	600	...	...	...	...	825	600	...	...	...	...	...	...	...
Do. do. Sampgaon ...	132,631	424	141	...	...	2,415	85·88	99·00	2,074	2,054	...	...	...	...	2,074	2,054	...	...	...	...	...	...	...
Do. do. Khánápur ...	85,577	633	240	...	1	1,096	14·78	99·04	162	161	67	67	...	...	95	94	...	...	...	...	...	...	...
Total ...	1,011,453	4,656	1,133	...	6	*1,24,738	8·66	84·99	10,803	9,181	1,415	1,000	...	...	9,388	8,181	...	...	...	...	...	...	...

* Excluding Educational and Dispensary income.

666—10 ap

District Local Boards.	Population as per Census of 1891.	Area in square miles.	Number of Villages in the Circle.	Number of Villages conserved (Village Sanitation Act).		Estimated income of 1898-99.	Rate per cent. of allotment to estimated income.	Rate per cent. of sanitary expenditure to allotment.	1898-99.												Brief notes on important sanitary works undertaken or completed during the year.
									Sanitary allotment.		Conservancy.		Improvement of Village-sites.		Improvement of water-supply, including cleansing, repairing and construction of Tanks and Wells.		Sanitary arrangements at Fairs and Festivals.		Construction and repair of Markets and Slaughter-houses.		Other sanitary objects, including construction and repair of Latrines, Dust-bins, Drains, &c.		
									Total of Columns 12, 14, 16, 18, 20 and 22.	Total of Columns 13, 15, 17, 19, 21 and 23.													
				Number of Unions.	Number of other Villages				Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
						Rs.			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
District Local Board, Bijápur ...	796,236	5,693	1,169	...	...	22,28,611	0·21	0·21	4,683	4,682	4,683	4,682	...	...	...	...	...	...	...	...	...	...	
Táluka Local Board, Indi ...	93,472	870	122	...	7	3,700	20·19	40·16	747	300	...	...	...	...	747	300	...	...	...	...	...	...	
Do. do. Sindgi ...	93,618	812	150	...	3	3,288	18·86	42 76	620	265	...	...	...	...	620	265	...	...	...	...	...	...	
Do. do. Bijápur ...	108,397	868	100	...	6	2,044	33·32	86·93	681	592	...	...	...	...	681	592	...	...	...	...	...	...	
Do. do. Bágevádi ...	102,426	764	121	...	7	2,704	51·22	86·14	1,385	1,193	...	...	...	...	1,385	1,193	...	...	...	...	...	...	
Do. do. Muddebihál.	81,572	564	154	...	3	3,345	30·97	...	1,036	1,257	...	...	...	...	1,036	1,257	...	...	...	...	...	...	
Do. do. Bágalkot ...	114,402	683	173	...	3	6,391	40·01	91·36	2,557	2,336	...	...	...	...	2,557	2,336	...	...	...	...	...	...	
Do. do. Bádámi ...	100,505	614	181	...	2	3,880	...	82·38	8,054	744	...	...	...	...	8,054	744	...	...	...	...	...	...	
Do. do. Hungund ...	102,894	518	168	...	4	2,551	61·66	71·77	1,573	1,129	...	...	...	...	1,573	1,129	...	...	...	...	...	...	
Total ...	796,286	5,693	1,169	...	35	22,56,514	0·95	58·58	21,336	12,498	4,683	4,682	...	...	16,653	7,816	...	...	...	...	...	...	
District Local Board, Dhárwár ...	1,050,533	4,535	1,472	...	...	1,61,992	·52	12·77	846	108	...	...	...	...	846	108	...	...	..	...	...	...	
Táluka Local Board, Dhárwár ...	126,817	425	173	...	2	5,132	...	12·11	7,896	956	...	...	...	...	7,896	956	...	...	...	...	...	...	
Do. do. Hubli ...	117,778	311	91	...	3	7,422	41·36	...	3,070	...	...	...	...	...	3,070	...	...	...	...	...	...	...	
Do. do. Navalgund .	105,875	562	95	...	3	5,842	89·14	32·19	5,207	1,676	...	...	440	402	4,767	1,274	...	...	...	...	...	...	
Do. do. Gadag ...	124,634	699	106	...	3	13,221	10·25	25·09	1,355	340	...	...	...	...	1,355	340	...	...	...	...	...	...	
Do. do. Bankapur .	85,602	343	163	...	1	4,977	16·43	9·77	768	75	...	...	...	...	768	75	...	...	...	...	...	...	
Do. do. Ránebennur ...	92,970	405	129	...	...	7,203	27·47	68·72	1,979	1,360	...	...	...	...	1,979	1,360	...	...	...	...	...	...	
Do. do. Hángal ...	74,506	299	174	...	...	10,646	36·52	58·38	3,888	2,270	...	...	...	...	3,888	2,270	...	...	...	...	...	...	
Do. do. Karajgi ...	99,199	442	136	...	1	6,993	27·97	69·18	1,956	1,359	...	...	...	...	1,956	1,359	...	...	..	...	...	...	
Do. do. Kalghatgi .	55,360	279	130	...	2	7,6 6	17·03	21·36	1,311	280	...	...	...	...	1,311	280	...	...	...	...	...	...	
Do. do. Kod ...	84,427	400	189	...	4	6,417	27·13	55·77	1,741	971	...	...	...	...	1,741	971	...	...	...	...	...	...	
Do. do. Ron ...	92,365	370	86	...	1	2,541	19·22	...	488	...	...	...	...	...	488	..	...	...	...	...	...	...	
Total ..	1,050,533	4,535	1,472	...	20	2,40,082	12·71	30·80	30,505	9,395	...	...	440	402	30,065	8,993	...	...	..	...	...	...	
District Local Board, Kánara ...	446,156	3,943	1,406	...	...	49,245	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Táluka Local Board, Kárwár ...	53,213	281	53	...	...	1,660	4·52	69·33	75	52	...	...	...	...	75	52	...	...	...	...	...	...	
Do. do. Aukola ...	36,937	375	93	...	...	1,128	21·10	94·96	238	226	200	198	...	...	38	28	...	...	...	...	...	...	
Do. do. Kumta ...	62,792	222	125	...	...	1,319	4·17	89·09	55	49	...	...	...	...	55	49	...	...	...	...	...	...	

Do.	do.	Honávar ...	93,517	426	157	...	...	2,015	4·96	37·05	100	37	...	...	...	...	100	37	...	...	...	...	...	...
Do.	do.	Siddápur ...	39,080	494	202	...	...	2,513	42·78	96·28	1,075	1,035	150	148	...	...	925	887	...	...	...	...	...	...
Do.	do.	Sirsi ...	63,034	331	260	...	...	2,476	24·72	75·98	612	465	...	...	...	...	612	465	...	...	...	...	...	...
Do.	do.	Haliyál ..	63,286	1,054	274	...	...	3,650	3·95	60·42	144	87	72	72	...	...	72	15	...	...	...	...	...	...
Do.	do.	Yellápur ...	34,297	760	242	...	...	3,429	17·64	80·50	605	487	405	398	...	...	200	89	...	...	...	...	...	...
		Total ...	446,156	3,943	1,406	...	...	67,435	4·31	83·95	2,904	2,438	827	816	...	...	2,077	1,622	...	...	...	...	...	...
District Local Board, Kolába ...			594,779	2,137	1,632	...	...	56,013	12·69	48·64	7,106	3,458	...	...	...	...	7,106	3,458	...	...	...	...	...	...
Táluka Local Board, Alibág ...			78,121	194	205	...	...	3,116	83·22	34·79	2,593	902	...	...	...	...	2,593	902	...	...	...	...	...	...
Do.	do.	Pen	74,508	298	226	...	...	8,387	44·33	53·09	3,718	1,974	...	...	...	...	3,718	1,974	...	...	...	...	...	...
Do.	do.	Panvel ...	107,832	274	279	...	3	9,566	17·42	65·33	1,676	1,095	...	...	...	...	1,676	1,095	...	...	...	...	...	...
Do.	do.	Karjat ...	85,236	359	288	...	4	2,965	96·09	15·72	2,849	448	...	...	...	...	2,849	448	...	...	...	...	...	...
Do.	do.	Roha ...	46,063	200	152	...	2	1,944	50·21	33·30	976	325	...	...	...	...	976	325	...	...	...	...	...	...
Do.	do.	Mángaon ...	83,837	353	231	...	2	2,517	43·86	39·44	1,103	435	...	...	...	...	1,103	435	...	...	...	...	...	...
Do.	do.	Mahád ...	119,182	459	251	...	...	2,847	68·67	22·51	1,955	440	...	...	...	...	1,955	440	...	...	...	...	...	...
		Total ...	594,779	2,137	1,632	...	11	87,355	25·16	41·30	21,976	9,077	...	...	...	...	21,976	9,077	...	...	...	...	...	...
District Local Board, Ratnágiri...			1,105,862	3,910	1,329	...	...	1,12,539	...	...	335	...	...	...	...	...	335	...	...	...	...	...	...	...
Táluka Local Board, Vengurla ...			39,401	61	10	...	1	875	1·14	90·	10	9	...	...	...	...	10	9	...	...	...	...	...	...
Do.	do.	Málvan ...	92,437	238	63	...	...	2,115	47·85	77·96	1,012	789	...	...	...	...	1,012	789	...	...	...	...	...	...
Do.	do.	Devgad ...	128,695	543	128	...	...	2,630	12·72	80·65	341	275	...	...	...	...	341	275	...	...	...	...	...	...
Do.	do.	Rájápur ...	140,941	512	172	...	...	2,230	35·45	73·12	826	604	...	...	...	...	826	604	...	...	...	...	...	...
Do.	do.	Ratnágiri...	136,810	412	152	...	...	1,930	38·29	47·35	739	350	...	...	...	...	739	350	...	...	...	...	...	...
Do.	do.	Sangamesh-var ...	126,700	559	195	...	...	2,135	26·00	54·77	555	304	...	...	...	...	555	304	...	...	...	...	...	...
Do.	do.	Chiplún ...	185,340	680	212	...	1	3,185	26·59	73·67	847	624	...	...	...	...	847	624	...	...	...	...	...	...
Do.	do.	Khed ...	100,550	400	147	...	2	1,925	...	34·77	2,870	998	...	...	...	...	2,870	998	...	...	...	...	...	...
Do.	do.	Dápoli ...	154,988	505	250½	...	...	3,045	80·10	72·57	2,439	1,770	...	...	...	...	2,439	1,770	...	...	...	...	...	
		Total ...	1,105,862	3,910	1,329	...	4	1,32,759	7·36	57·38	9,974	5,723	...	...	...	...	9,974	5,723	...	...	...	..	...	...
District Local Board, Karáchi ...			561,013	14,221	3,473	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Táluka Local Board, Karáchi ...			146,694	1,291	103	...	...	1,866	4·28	100·	80	80	...	...	...	...	80	80	...	...	...	..	...	...
				1,088	214	...	2	3,017	10·14	91·83	306	281	96	96	...	...	210	185	...	...	...	...	...	...
Do.	do.	Sakro ...																						
Do.	do.	Tatta ...	45,627	1,313	209	...	2	4,845	7·63	75·67	370	280	...	...	...	...	370	280	...	...	...	...	...	...
Do.	do.	Ghorabári ...	30,518	562	196	...	...	3,099	4·	65·32	124	81	84	77	40	4	...	...	...	...	...	...	...	...
Do.	do.	Sháhbandar .	56,135	1,388	235	...	1	3,660	6·61	97·52	242	236	72	66	...	...	170	170	...	...	...	...	...	...
Do.	do.	Jati ...		2,145	413	...	2	3,265	7·35	91·66	240	220	...	...	...	...	240	220	...	...	...	...	...	...
Do.	do.	Sujáwal ...	64,692	267	379	...	1	4,083	19·66	97·50	803	783	...	...	...	...	803	783	...	...	...	...	...	...
Do.	do.	Mirpur Batoro ...		269	420	...	3	5,418	10·15	52·72	550	290	...	...	350	90	140	140	...	...	60	60	...	...
Do.	do.	Kotri Mánjhand ...	63,489	4,061	198	...	11	3,895	17·97	73·57	700	515	...	...	...	...	700	515	...	...	...	...	...	...
Do.	do.	Schwan ...	53,565	813	295	...	6	8,996	4·89	93·86	440	413	...	...	...	...	440	413	...	...	...	...	...	...
Do.	do.	Dádu ...	55,445	263	540	...	4	7,059	22·09	47·37	1,560	739	...	...	...	...	1,560	739	...	...	...	...	...	...
Do.	do.	Johi ...	44,848	761	241	...	5	5,918	51·36	72·33	3,040	2,199	...	...	..	...	3,040	2,199	...	...	...	...	...	...
		Total ...	561,013	14,221	3,473	...	37	55,121	15·34	72·35	8,455	6,117	252	239	390	94	7,753	5,724	...	...	60	60	...	...

District Local Boards.	Population as per Census of 1891.	Area in square miles.	Number of Villages in the Circle.	Number of Villages conserved (Village Sanitation Act).		Entire Income of 1898-99.	Rate per cent. of allotment to estimated income.	Rate per cent. of sanitary expenditure to allotment.	1898-99.												Brief notes on important sanitary works undertaken or completed during the year.
									Sanitary Allotment.		Conservancy.		Improvement of Village-sites.		Improvement of Water-supply, including cleansing, repairing and construction of Tanks and Wells.		Sanitary arrangements at Fairs and Festivals.		Construction and repair of Markets and Slaughter-houses.		Other sanitary objects, including construction and repair of Latrines, Dust-bins, Drains, &c.		
				Number of unions.	Number of other Villages.				Total of Columns 12, 14, 16, 18, 20 and 22.	Total of Columns 13, 15, 17, 19, 21 and 23.												
									Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	Allotment.	Expenditure.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
									Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
District Local Board, Hyderabad	883,836	8,313	1,590	...	...	53,038	10·41	98·33	5,519	5,427	...	...	...	...	205	205	...	...	...	...	5,314	5,222	
Táluka Local Board, Hyderabad	121,921	401	102	...	4	7,501	3·47	38·46	260	100	...	...	...	...	200	100	60	...	...	...	...	...	
Do. do. Guni ...	79,939	989	225	...	...	7,871	10·16	21·25	800	170	...	...	...	...	720	170	80	...	...	...	...	...	
Do. do. Badin ...	73,866	794	189	...	3	10,235	4·98	57·84	510	295	...	...	...	...	410	253	100	42	...	...	...	...	
Do. do. Tando-Bágo	63,798	707	162	...	1	8,519	5·87	24·40	500	122	...	...	..	...	500	122	...	...	...	...	...	...	
Do. do. Dero Mohbat ...	43,028	608	149	...	1	4,115	3·26	82·22	135	111	...	...	...	...	135	111	...	...	...	...	...	...	
Do. do. Tando Alahyár ...	75,914	696	111	...	...	6,687	11·87	5·64	794	44	...	...	...	...	784	44	10	...	...	...	...	...	
Do. do. Sháhadádpur ...	67,404	646	122	...	2	7,246	8·97	50·00	650	325	...	...	...	...	650	325	...	...	...	...	...	...	
Do. do. Hála ...	91,367	531	137	...	4	6,724	7·44	58·40	500	292	...	...	...	...	100	100	400	192	...	...	...	...	
Do. do. Sákrand ...	62,950	1,390	130	...	2	6,780	15·25	99 90	1,034	1,033	...	...	...	...	1,034	1,033	...	...	...	...	...	...	
Do. do. Moro ...	57,642	704	89	...	1	9,335	13·93	10·15	1,300	132	...	...	...	...	1,300	132	...	...	...	...	...	...	
Do. do. Nushahro .	90,976	532	109	...	3	10,163	27·80	52·92	2,825	1,497	...	...	...	...	2,785	1,497	40	...	...	...	...	...	
Do. do. Kandiáro ...	55,731	315	65	...	1	6,214	1·93	79·17	120	95	...	...	...	...	100	77	20	18	...	...	...	...	
Total ...	883,836	8,313	1,590	...	22	1,44,428	10·35	64·51	14,947	9,643	...	..	...	...	8,923	4,169	710	252	...	...	5,314	5,222	
District Local Board, Shikárpur	915,058	8,039	1,163	...	...	1,59,985	8·76	96·33	14,011	13,497	...	...	...	...	100	53	...	...	...	...	13,911	13,444	
Táluka Local Board, Shikárpur ...	86,919	481	84	...	...	9,118	70·95	77·15	6,469	4,991	...	...	...	...	2,518	1,418	...	...	...	...	3,951	3,573	
Do. do. Sukkur ...	83,176	293	62	...	...	8,974	31·81	89·28	2,855	2,519	...	...	...	...	1,656	1,362	...	...	...	...	1,199	1,187	
Do. do. Naushahro...	66,219	406	93	...	...	8,235	17·32	85·69	1,426	1,222	...	...	...	...	276	222	...	...	...	...	1,200	1,000	
Do. do. Rohri ...	81,040	1,445	66	...	...	8 542	38·60	86·53	3,297	2,853	...	...	...	...	653	486	...	...	...	...	2,744	2,367	
Do. do. Ghotki ...	67,742	503	139	...	...	14,981	23·77	89·95	3,561	3,203	...	...	...	...	561	540	...	...	...	...	3,006	2,663	
Do. do. Mirpur ...	48,064	1,719	108	...	1	8,093	26·38	74·89	2,135	1,598	120	120	...	...	525	468	...	...	...	...	1,490	1,010	
Do. do. Ubauro ...	40,920	465	93	...	1	5,891	37·24	96·01	2,194	2,107	676	645	...	...	468	462	...	...	...	...	1,050	1,000	
Do. do. Lárkhána ...	90,142	259	73	...	...	15,316	29·39	96·07	4,501	4,324	...	...	...	...	801	796	...	...	...	...	3,700	3,528	
Do. do. Labdarya ...	62,659	344	65	...	1	11,007	46·13	95·02	5,078	4,825	30	30	...	...	848	794	...	...	...	...	4,200	4,001	
Do. do. Kambar ...	79,019	626	90	...	...	9,189	43·04	88·37	3,955	3,495	...	...	...	...	755	495	...	...	...	...	3,200	3,000	
Do. do. Rato-dero ...	61,268	316	86	...	...	10,769	14·50	63·25	1,562	988	...	...	...	...	862	488	...	...	...	...	700	500	
Do. do. Mehar ...	48,292	821	65	...	1	7,436	57·50	94·39	4,253	4,023	1,144	1,140	...	...	1,709	1,691	...	...	...	...	1,400	1,192	

Do.	do.	Kakar ...	54,954	444	73	...	1	5,228	..	98·60	7,344	7,241	704	632	...	...	2,440	2,430	...	...	...	...	4,200	4,179
Do.	do.	Nasirabad ..	44,641	417	66	...	2	7,963	74·07	95·69	5,898	5,644	280	280	...	...	918	864	...	...	...	...	4,700	4,500
		Total ...	915,058	8,039	1,163	...	7	2,90,727	23·57	91·25	68,539	62,560	2,954	2,847	...	...	14,940	12,569	...	...	...	...	50,645	47,144
District Local Board, Thar and Párkar ...		... ...	332,401	13,439	2,491	...	...	23,055	17·95	53·67	4,138	2,221	1,372	1,372	...	...	2,766	849	...	...	...	...	...	...
Táluka Local Board, Umarkot ...			73,093	2,343	504	...	1	6,227	2·89	91·67	180	165	...	...	...	...	180	165	...	...	...	...	...	...
Do.	do.	Cháchro ...	49,535	2,804	425	...	1	1,160	1·36	...	15	...	...	...	...	...	15	...	...	...	...	...	...	...
Do.	do.	Khipro ...	50,917	2,406	253	...	1	5,818	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do.	do.	Sanghar ...	24,929	795	167	...	1	7,539	2·26	38·40	125	48	...	...	...	...	125	48	...	...	...	...	...	...
Do.	do.	Thar ...	55,537	2,912	600	...	1	1,404	2·85	100·00	40	40	...	...	...	...	40	40	...	...	...	...	...	...
Do.	do.	Párkar ...	41,178	1,018	307	...	1	1,163	4·50	93·00	50	48	...	...	...	...	15	13	...	...	35	35	...	...
Do.	do.	Mirpur ...	34,212	561	235	...	1	2,011	4·47	100·00	90	90	...	...	...	...	90	90	...	...	...	...	...	...
		Total ...	332,401	13,439	2,491	...	7	18,310	10·01	53·32	4,638	2,612	1,372	1,372	...	...	3,231	1,205	...	...	35	35	...	...
District Local Board, Upper Sind Frontier			174,469	2,602	1,290	...	...	50,029	3·12	99·36	156	155	156	155	...	...	...	...	...	...	...	...	...	...
Táluka Lacal Board, Jacobabad...			48,254	456	281	...	...	9,026	2·66	89·59	240	215	...	...	...	...	240	215	...	...	...	...	...	...
Do.	do.	Phul ..	44,856	728	402	...	...	11,479	5·83	93·72	669	627	...	...	...	...	669	627	...	...	...	...	...	...
Do.	do.	Kashmor ...	53,981	796	347	...	...	9,110	9·70	82·64	887	733	...	...	365	365	522	368	...	...	...	...	...	...
Do.	do.	Shahdadpur	27,378	622	260	...	...	7,233	3·33	99·59	241	240	...	...	95	95	146	145	...	...	...	...	...	...
		Total ...	174,469	2,602	1,290	...	...	86,897	2·52	89·83	2,193	1,970	156	155	460	460	1,577	1,355	...	...	...	...	...	...
		Grand Total ...	18,14,202	1,23,259	33,170	1	299	57,27,491	10·12	59·06	5,79,400	3,42,207	18,247	15,305	3,016	2,437	4,59,319	2,47,945	838	343	95	95	97,885	76,082

* The increase is due to the inclusion of certain areas originally forming part of the Tando Bago, Badin and Dero Mohbat Talukas of the Hyderabad District *vide* Government Notification Nos 147 and 148-A., dated 10th January 1899.

B 666—11 *dp*

APPENDIX VI.

Statement showing the Principal Diseases causing Mortality among European Civil Population of the Bombay Presidency for the year 1899.

No.	Collectorates.	General Diseases. A.										General Diseases. B.				Local Diseases.												Conditions not necessarily associated with General or Local Diseases.			Accident and Violence.					
				Fever.															Digestive system.																		
		Small-pox.	Measles.	Plague.	Enteric Fever.	Simple continued.	Ague.	Remittent.	Typhoid.	Cholera.	All other diseases classed under Section A. of General Diseases.	Leprosy.	Dropsy.	Phthisis.	All other diseases classed under Section B. of General Diseases.	Nervous system.	Diseases of the eye, ear and nose.	Circulatory system.	Absorbent system.	Respiratory system.	Diarrhœa.	Dysentery.	All other diseases registered under Digestive system.	Urinary system.	Generative system.	Organs of Locomotion and Cellular Tissue.	Cutaneous system.	Still-born.	Premature birth.	Old age and debility.	Poison.	General Injuries.	Local Injuries.	Drowning.	Unspecified causes.	Total exclusive of still-borns.
1	Khándesh	...	...	...	...	...	...	1	1	..	...	...	1	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
2	Nasik	...	...	...	...	...	...	...	..	...	...	...	...	...	...	2	...	1	...	1	1	..	3	...	...	...	...	...	...	...	...	...	2	...	...	...	8
3	Thána	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
4	Bombay	...	1	12	8	6	1	6	...	...	1	...	...	6	14	17	...	12	...	16	17	6	24	7	1	...	...	9	3	5	2	2	...	1	1	169
5	Kolába	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
6	Ahmednagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Poona	...	...	3	...	...	...	2	..	...	...	...	1	...	2	1	...	3	...	2	...	1	3	...	...	...	...	...	...	1	...	1	...	...	...	20
8	Sholápur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	2
9	Sátára	...	..	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	1	...	...	...	...	...	4
10	Ratnagiri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Belgaum	..	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	Dhárwár	...	...	1	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	7
13	Bijápur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	Kánara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
15	Surat	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	1	...	...	...	..	...	...	...	...	...	..	...	...	..	...	...	...	...	1
16	Broach	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	Káira	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
18	Panch Mahals	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Ahmedabad	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	3
20	Karáchi	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
21	Hyderabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	Tár and Párkar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Shikárpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	3
24	Upper Sind Frontier ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	1	16	9	6	1	10	1	2	1	..	2	7	16	27	...	19	...	24	19	7	35	8	1	...	...	9	3	7	2	5	...	1	1	231
	Cantonments in quasi foreign territory.																																			
	Aden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
	Baroda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bhuj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Deesa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mhow	...	...	...	...	...	...	..	...	...	...	...	...	...	1	...	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
	Neemuch	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
	Nasirabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rájkot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3

Statement showing the Principal Diseases causing mortality among Eurasian Civil Population of the Bombay Presidency for the year 1899.

No.	Collectorates.	General Diseases. A. Small-pox.	Measles.	Plague.	Fever. Enteric Fever.	Fever. Simple continued.	Fever. Ague.	Fever. Remittent.	Fever. Typhoid.	Cholera.	All other diseases classed under Section A of General Diseases.	General Diseases. B. Leprosy.	Dropsy.	Phthises.	All other diseases classed under Section B of General Diseases.	Local Diseases. Nervous system.	Diseases of the eye, ear and nose.	Circulatory system.	Absorbent system.	Respiratory system.	Digestive system. Diarrhœa.	Digestive system. Dysentery.	Digestive system. All other diseases registered under Digestive system.	Urinary system.	Generative system.	Organs of Locomotion and Cellular Tissue.	Cutaneous system.	Conditions not necessarily associated with General or Local Diseases. Still born,	Premature birth.	Old age and Debility.	Accident and violence. Poison.	General Injuries.	Local Injuries.	Drowning.	Unspecified causes.	Total exclusive of still-born.
1	Khándesh	...	...	...	...	...	..	3	...	...	...	...	...	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	6
2	Násik	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	6
3	Thána	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
4	Bombay	1	1	29	1	...	...	9	...	...	5	...	...	12	3	11	...	3	...	20	13	4	10	1	2	...	...	...	3	9	2	2	...	1	3	145
5	Kolába	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Ahmednagar	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
7	Poo'a	...	...	2	...	...	...	1	...	...	...	...	...	1	...	...	...	2	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
8	Sholápur	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...	8
9	Sátára	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	Ratnágeri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Belgaum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	Dhárwár	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
13	Bijápur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	Kánara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	Surat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
16	Broach	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	Kaira	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	Panch Mahals	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Ahmedabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	Karáchi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	3
21	Hyderabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	Thar and Párkar... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Shikárpur	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	3
24	Upper Sind Frontier ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	1	2	32	1	...	...	15	...	...	5	...	...	13	4	17	...	8	...	27	14	7	11	1	2	...	...	...	3	9	2	4	1	1	5	185
	Cantonments in quasi foreign territory.																																			
	Aden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Baroda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bhuj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Deesa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mhow	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Neemuch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nasirabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajkot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

APPENDIX VII.

Statement showing the Sickness and Mortality among the Children of the Lawrence Asylum, Mount Abu, for the year 1899.

Months.	Average number of children who have occupied rooms on the lower floor in the Asylum.	Causes of admissions and Deaths.																				Ratio per 1,000 of Strength.																			
		Remittent Fever.		Enteric Fever.		Ague.		Influenza.		Diarrhœa.		Fracture of forearms.		Viticaria		Tonsitities.		Inflamation of Glands.		Total.		Remittent Fever.		Enteric Fever.		Ague.		Influenza.		Diarrhœa.		Fracture of forearm.		Viticaria.		Tonsitities.		Inflamation of Glands.		Total.	
		Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.
January 1899 ...	80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February ,, ...	83	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March ,, ...	83	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April ,, ...	83	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	12·05	...	...	...	...	...	...	...	...	...	...	...	12·05	...
May ,, ...	83	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June ,, ...	83	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July ,, ...	83	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August ,, ...	83	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	1	...	4	...	...	...	...	...	...	...	...	...	...	...	12·05	...	24·10	...	12·05	...	48·19	...
September ,, ...	84	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
October ,, ...	84	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
November ,, ...	83	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December ,, ...	84	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	83	...	...	...	...	...	...	1	...	...	...	...	...	1	...	2	...	1	...	5	...	...	...	...	...	...	...	12·05	...	...	...	...	...	12·05	...	24·10	...	12·05	...	48·19	...
For 1899 ...	83	2	...	2	...	4	...	...	...	1	...	1	...	...	...	...	...	...	...	10	...	24·69	...	24·69	...	49·38	...	...	...	12·35	...	12·35	...	...	...	...	...	...	...	123·46	...

APPENDIX VIII.

GENERAL POPULATION AND VITAL STATISTICS.

ANNUAL FORM No. I—*Showing the Births registered in the Districts of the Bombay Presidency during 1899.*

1	2	3			4			5			6	7	8	9		
No.	Districts.	POPULATION ACCORDING TO CENSUS OF 1891.			NUMBER OF BIRTHS REGISTERED.			RATIO OF BIRTHS PER 1,000 OF POPULATION.			Number of Males born to every 100 Females born.	Excess of Births over Deaths per 1,000 of Population.	Excess of Deaths over Births per 1,000 of Population.	MEAN RATIO OF BIRTHS PER 1,000 DURING PREVIOUS FIVE YEARS.		
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.				Male.	Female.	Total.
	Western Registration District.															
1	Khándesh	745,550	714,769	1,460,319	39,639	37,551	77,190	27·14	25·71	52·85	105·56	12·31	...	22·58	21·38	43·96
2	Násik	430,327	410,760	841,087	21,274	20,310	41,584	25·29	24·15	49·44	104·75	...	0·18	22·14	20·70	42·82
3	Thána	427,483	391,484	818,967	13,372	12,540	25,912	16·33	15·31	31·64	106·63	...	5·55	16·16	15·20	31·35
4	City of Bombay ...	507,681	298,463	806,144	5,534	4,853	10,387	6·86	6·02	12·88	114·03	...	56·65	8·45	7·77	16·23
5	Kolába	298,889	295,890	594,779	10,974	10,462	21,436	18·45	17·59	36·04	104·90	3·11	...	17·32	16·40	33·72
	Central Registration District.															
6	Ahmednagar	450,900	436,756	887,656	20,755	19,866	40,621	23·38	22·38	45·76	104·47	12·71	...	22·02	20·73	42·75
7	Poona	540,949	520,500	1,061,449	18,273	17,185	35,458	17·22	16·19	33·41	106·33	...	16·26	18·22	16·80	35·02
8	Sholápur	381,155	369,100	750,255	15,279	14,383	29,662	20·37	19·17	39·54	106·23	7·44	...	18·69	17·73	36·42
9	Sátára	613,501	612,010	1,225,511	21,233	19,902	41,135	17·32	16·24	33·56	106·69	...	0·90	18·64	17·64	36·28
10	Ratnágiri	513,581	592,281	1,105,862	19,981	18,841	38,822	18·07	17·04	35·11	106·05	13·27	...	15·60	14·66	30·26
	Southern Registration District.															
11	Belgaum	510,391	501,062	1,011,453	19,973	19,006	38,979	19·75	18·79	38·54	105·09	...	6·46	19·42	18·57	37·99
12	Dhárwár	527,632	522,901	1,050,533	19,554	19,039	38,593	18·61	18·12	36·73	102·75	...	3·86	20·05	19·48	39·54
13	Bijápur	398,070	398,216	796,286	16,739	16,268	33,007	21·02	20·43	41·45	102·89	12·39	...	18·26	17·61	35·87
14	Kánara...	234,241	211,915	446,156	7,281	6,698	13,979	16·32	15·01	31·33	108·70	0·42	...	15·75	14·69	30·44
	Gujarát Registration District.															
15	Surat	321,541	328,283	649,824	13,026	12,307	25,333	20·04	18·94	38·98	105·84	0·10	...	20·13	19·34	39·47
16	Broach...	174,933	166,517	341,450	6,188	5,878	12,066	18·13	17·21	35·34	105·27	...	10·66	20·68	19·59	40·27
17	Kaira	460,566	410,963	871,529	19,318	17,235	36,553	22·17	19·77	41·94	112·09	4·62	...	18·71	16·54	35·25
18	Panch Maháls ...	162,073	151,308	313,381	6,407	6,013	12,420	20·44	19·19	39·63	106·55	10·94	...	19·72	18·76	38·48
19	Ahmedabad	472,977	447,951	920,928	17,439	16,108	33,547	18·94	17·49	36·43	108·26	3·91	...	17·08	15·47	32·55
	Sind Registration District.															
20	Karáchi	310,341	250,672	561,013	9,057	7,578	16,635	16·14	13·51	29·65	119·52	...	34·27	15·36	13·01	28·37
21	Hyderabad	480,322	403,514	883,836	10,860	8,150	19,010	12·29	9·22	21·51	133·25	550·94	...	10·43	7·82	18·25
22	Thar and Párkar ...	184,449	147,952	332,401	4,078	3,072	7,150	12·27	9·24	21·51	132·75	...	84·34	15·85	12·78	34·63
23	Shikárpur	493,603	421,455	915,058	16,419	13,702	30,121	17·94	14·97	32·91	119·83	882·80	...	15·82	13·09	28·91
24	Upper Sind Frontier...	96,231	78,238	174,469	3,216	2,532	5,748	18·43	14·51	32·94	127·01	941·89	...	16·52	12·63	29·15
	Grand Total for the Presidency ...	9,737,386	9,082,960	18,820,346	355,869	329,479	685,348	18·91	17·51	36·42	108·01	·70	...	17·88	16·53	34·41

ANNUAL FORM NO. II.—*Statement of* BIRTHS *and* DEATHS *registered in the* DISTRICT *of the* BOMBAY PRESIDENCY *during the year 1899.*

1	2	3	4	5			6		7			8	9									10			11	12
Serial Number.	Districts.	Area in square miles.	Average population per square mile.	POPULATION (CENSUS, 1891).			BIRTHS.		NUMBER OF DEATHS REGISTERED.			Number of deaths of males to every 100 deaths of females.	DEATHS PER 1,000 OF POPULATION FROM									MEAN RATIO OF DEATHS PER 1,000 DURING PREVIOUS FIVE YEARS.			Net receipt of each Circle from conservancy.	Net expenditure in each Circle on conservancy.
				Male.	Female.	Total.	Total number.	Birth-rate per 1,000 of population.	Male.	Female.	Total.		Cholera.	Small-pox.	Fevers.	Dysentery and diarrhœa.	Injuries.	All other causes.	All Causes.			Male.	Female.	Total.			
																			Male.	Female.	Total.				Rs. a. p.	Rs. a. p.
	Western Registration District.																									
1	Khándesh	9,974	146·	745,550	714,769	1,460,319	77,190	52·85	30,900	27,308	58,208	113·	...	0·02	15·57	9·43	0·26	14·58	41·45	38·21	39·86	50·96	35·11	43·27	.....	.....
2	Násik	5,940	141·	430,327	410,760	841,087	41,584	49·44	21,753	19,979	41,732	108·	0·01	0·03	24·55	7·44	0·27	17·33	50·55	48·64	49·62	42·53	40·22	41·39	.....	.....
3	Thánn	3,583	228·	427,483	391,484	818,967	25,912	31·64	10,378	14,178	30,456	114·	...	0·56	24·72	2·01	0·46	9·43	38·08	36·22	37·19	30·17	30·19	30·18	.....	.....
4	City of Bombay	22	36,642·	507,681	298,463	806,144	10,387	12·88	33,103	22,959	56,092	144·	0·14	0·54	25·92	5·28	0·66	36,99	65·20	76·93	69·54	40·57	54·10	45·57	.....	.....
5	Kolába	2,164	274·	298,889	295,890	594,779	21,436	36·04	10,119	9,470	19,589	106·	...	0·46	17·71	3·72	0·33	10·71	33·86	32·01	32·93	31·71	30·23	30·97	.....	.....
	Central Registration District.																									
6	Ahmednagar	6,666	123·	450,900	436,756	887,656	40,021	45·76	15,148	14,200	29,348	106·	...	0·06	8·98	4·54	0·26	19·22	33·60	32·51	33·06	37·36	24·43	35·96	.....	.....
7	Poona	5,348	198·	540,949	520,500	1,061,449	35,458	33·41	27,567	25,150	52,717	109·	...	0·06	34·92	7·59	0·24	6·85	50·96	48·32	49·67	38·22	36·34	37·29	.....	.....
8	Sholápur	4,521	165·	381,155	369,100	750,255	29,662	39·54	12,663	11,414	24,077	110·	...	0·10	16·90	9·60	0·33	5·16	33·22	30·92	32·09	36·63	34·25	35·46	.....	.....
9	Sátára	4,938	245·	613,501	612,010	1,225,511	41,135	33·56	21,395	20,851	42,236	102·	...	0·02	12·30	5·95	0·32	15·87	34·86	34·07	34·46	38·81	36·81	37·81	.....	.....
10	Ratnágiri...	3,922	218·	513,581	592,281	1,105,862	38,822	35·11	12,011	12,131	24,142	99·	...	0·03	10·82	3·77	0·47	6·74	23·39	20·48	21·83	26·49	22·47	24·34	.....	.....
	Southern Registration District.																									
11	Belgaum	4,657	217·	510,391	501,062	1,011,453	38,979	38·54	23,584	21,928	45,512	107·	4·42	0·01	15·41	4·46	0·37	20·31	46·21	43·76	44·99	37·97	36·85	37·42	.....	.....
12	Dhárwár	4,535	231·	537,632	522,901	1,060,533	38,593	36·73	21,800	20,849	42,649	104·	1·27	0·14	16,99	2·11	0·39	19·69	41·32	39·87	40·59	39·86	38·96	39·41	.....	3,257 9 0
13	Bijápur	5,757	139·	398,070	398,216	796,286	33,007	41·45	11,911	11,230	23,141	106·	0·17	0·24	7·41	4·11	0·32	16·82	29·92	28·28	29·06	30·79	29·52	30·15	.....	.....
14	Kánara	3,911	114·	234,241	211,915	446,156	13,979	31·33	7,291	6,500	13,791	112·	0·26	0·20	14·91	1·69	0·42	13·43	31·13	30·67	30·91	29·19	28·79	28·99	.....	821 4 0
	Gujarát Registration District.																									
15	Surat	1,662	300·	321,541	328,283	649,824	25,333	38·98	12,772	12,497	25,269	102·	...	...	20·37	1·21	0·33	16·97	39·72	38·07	38·88	34·90	33·29	34·08	45,142 8 9	1,97,769 0 8
16	Broach	1,453	235·	174,033	166,517	341,450	12,066	35·34	8,127	7,579	15,706	107·	...	...	27·22	1·40	0·45	16·93	46·46	45·58	46·00	38·77	38 28	38·54	.....	26,995 13 6
17	Kaira	1,609	541·	460,566	410,963	871,529	36,563	41·94	17,360	15,164	32,524	114·	...	...	7·75	1·74	0·62	27·21	37·61	36·90	37·32	34·93	32·81	34·04	3,889 3 10	17,738 8 7
18	Panch Mahúls	1,613	194·	162,073	151,308	313,381	12,420	39·63	4,870	4,121	8,991	110·	...	0·03	23·67	0·32	0·51	4·16	30·05	27·30	28·69	27·16	25·83	26·51	421 8 0	4,394 15 3
19	Ahmedabad	3,821	241·	472,977	447,951	920,928	33,547	36·43	15,846	14,100	29,946	112·	...	...	21·81	0·87	0·35	9·49	33·50	31·48	32·53	32·99	31·11	32·08	78,387 4 0	1,05,333 0 3
	Sind Registration District.																									
20	Karáchi	14,115	39·	310,341	250,672	561,013	16,635	29·65	9,557	7,639	*17,205	125·	4·27	0·04	15·97	1·48	0·47	8·42	30·80	30·47	30·67	23·45	23·42	23·43	.....	.....
21	Hyderabad	8,469	104·	480,322	403,514	883,836	19,010	21·51	6,816	5,441	12,257	125·	...	...	11·32	0·37	0·35	1·83	14·19	13·48	13·87	14·88	14·32	14·58	.....	.....
22	Thar and Párkar ...	13,260	25·	184,419	147,952	332,401	7,150	21·51	4,371	3,382	7,753	129·	...	...	22·41	0·10	0·40	0·41	23·70	22·86	23·32	17·27	18·15	17·67	.....	.....
23	Shikárpur	9,277	98·	493,603	421,455	915,058	30,121	32·92	8,443	7,555	15,998	111·	...	0·01	14·47	0·22	0·39	2·39	17·10	17·93	17·48	24·29	22·77	22·41	.....	.....
24	Upper Sind Frontier ...	2,863	60·	96,231	78,238	174,469	5,748	32·95	1,566	1,394	2,960	112·	...	...	15·96	0·05	0·35	0·61	16·27	17·82	16·97	21·10	22·38	21·67	.....	.....
	Total for the Presidency.	124,130	151·	9,737,386	9,082,960	18,820,346	685,348	36·42	355,241	317,019	672,269	112·	·46	·10	17·27	3·97	·38	13·54	36·48	34·90	35·72	32·76	31·84	32·31	.....	.....

* The sex of 9 deaths in the district of Karáchi could not be ascertained.

ANNUAL FORM No. III.—DEATHS *registered in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during the Month of the year 1899.*

1	2	3												4	5
No.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total Deaths registered during the year.	No.
	Western Registration District.														
1	Khándesh	4,690	4,234	6,501	6,699	6,117	4,375	4,274	4,567	3,631	3,653	4,151	5,316	58,208	1
2	Násik	3,281	2,790	2,893	2,537	2,646	2,947	4,022	5,193	5,759	3,997	2,663	2,715	41,732	2
3	Thána	3,980	3,199	3,840	2,705	2,064	1,793	1,956	2,508	2,223	1,983	2,036	2,204	30,456	3
4	City of Bombay	5,618	7,396	10,247	6,184	3,997	2,263	2,364	2,365	2,637	3,287	3,557	5,897	56,062	4
5	Kolába	2,265	1,701	2,149	1,681	1,654	1,349	1,368	1,641	1,557	1,332	1,346	1,546	19,589	5
	Central Registration District.														
6	Ahmednagar	3,059	1,748	2,035	2,236	2,329	2,280	2,814	2,931	3,436	2,868	2,065	2,547	29,349	6
7	Poona	2,681	2,533	3,439	3,002	2,865	3,008	5,793	9,802	7,862	6,003	3,213	2,516	52,717	7
8	Sholápur	1,568	1,343	1,792	1,858	1,776	1,498	1,872	2,160	2,158	2,757	2,484	2,781	24,077	8
9	Sátára	3,238	2,525	2,963	2,404	2,496	2,688	3,543	4,331	5,573	5,773	3,649	3,053	42,236	9
10	Ratnágiri	2,214	1,826	2,372	1,996	2,036	1,908	2,078	2,080	2,011	1,772	1,801	2,048	24,142	10
	Southern Registration District.														
11	Belgaum	2,705	2,574	3,546	4,088	2,864	3,295	4,840	5,255	4,879	5,138	3,569	2,760	45,512	11
12	Dhárwár	4,947	3,593	3,367	2,786	2,555	2,430	2,630	3,145	3,904	4,839	4,323	4,130	42,649	12
13	Bijápur	1,847	1,509	1,209	1,456	1,512	1,532	1,763	2,006	2,306	2,844	2,481	2,176	23,141	13
14	Kánara	1,509	1,405	1,242	1,095	1,125	1,102	1,214	980	1,013	941	1,007	1,188	13,791	14
	Gujarát Registration District.														
15	Surat	3,067	3,695	3,821	2,076	1,895	1,547	1,753	1,964	1,899	1,935	1,859	2,158	25,269	15
16	Broach	1,741	1,667	1,988	1,332	1,045	759	961	1,002	911	1,026	1,315	1,959	15,706	16
17	Kaira	2,488	2,388	3,083	2,684	2,201	2,057	2,405	2,489	2,024	2,469	3,311	4,925	32,524	17
18	Panch Mahála	1,523	1,417	797	637	494	465	461	451	419	500	716	1,514	8,991	18
19	Ahmedabad...	2,368	2,585	3,164	2,855	2,154	1,645	1,661	1,577	1,612	2,381	3,228	4,716	29,946	19
	Sind Registration District.														
20	Karáchi	13,76	1,286	1,972	2,453	3,532	1,141	731	714	746	958	1,079	1,200	17,205	20
21	Hyderabad	1,185	1,177	1,163	875	871	743	628	775	1,083	1,253	1,195	1,329	12,257	21
22	Thar and Párkar ...	505	477	636	570	362	296	317	305	391	757	1,393	1,745	7,753	22
23	Shikárpur	1,860	1,552	1,421	1,232	1,096	976	964	897	1,124	1,548	1,657	1,661	15,993	23
24	Upper Sind Frontier ...	302	255	211	269	203	185	153	168	252	363	339	320	2,960	24
	Total for the Presidency ...	59,587	53,475	65,199	55,970	49,878	42,252	50,585	59,631	59,460	60,374	54,436	62,401	6,73,269	
	Ratio of deaths per 1,000 in each month... ...	3·11	2·84	3·46	2·97	2·65	2.25	2·69	3·17	3·16	3·21	2·90	3·31	35.72	

ANNUAL FORM. No. IV.— DEATHS. *registered according to* AGE *in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during the year 1899.*

1	2	3		4		5		6		7		8		9		10		11		12		13
No.	Districts.	Under 1 year.		1 year and under 5.		5 and under 10.		10 and under 15.		15 and under 20.		20 and under 30.		30 and under 40.		40 and under 50.		50 and under 60.		60 and upwards.		No.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Fem le.	Male.	Female.	Male.	Female.	
	Western Registration District.																					
1	Khándesh	9,829	8,136	7,153	7,070	1,370	1,270	602	583	452	611	1,469	1,818	1,923	1,586	2,003	1,170	2,106	1,271	3,968	3,793	1
2	Násik	5,101	4,165	3,698	3,798	1,321	1,416	955	990	771	897	2,608	2,175	2,113	1,692	1,900	1,216	1,636	1,335	2,250	2,495	2
3	Thána	2,494	2,184	2,221	2,278	1,032	1,027	729	685	697	621	1,707	1,577	2,074	1,601	1,389	1,186	1,495	1,064	1,894	1,945	3
4	City of Bombay	4,389	3,907	2,280	2,376	1,057	1,166	1,730	1,475	1,897	1,281	6,562	3,576	6,073	2,808	3,347	1,673	2,166	1236	3,602	3,461	4
5	Kolába	1,943	1,681	1,786	1,929	583	574	308	218	258	262	781	901	935	793	949	644	995	741	1,581	1,727	5
	Central Registration District.																					
6	Ahmednagar	4,659	4,022	2,833	2,644	681	742	412	461	317	434	853	1,059	1,032	998	1,029	770	1,047	742	2,286	2,318	6
7	Poona	5,197	3,802	3,301	3,087	1,805	1,750	1,636	1,601	1,622	1,669	3,143	2,987	2,893	2,768	2,573	2,090	2,231	1,975	3,167	3,430	7
8	Sholápur	3,124	2,376	2,452	2,394	592	537	375	355	322	367	794	843	977	898	1,083	794	1,022	881	1,912	1,979	8
9	Sátára	3,819	3,189	3,731	3,635	1,531	1,430	1,054	1,032	669	880	1,880	2,070	1,870	1,754	1,751	1,510	1,878	1,723	3,212	3,329	9
10	Ratnágiri	1,910	1,702	1,618	1,812	612	722	339	361	338	331	856	962	980	1,044	1,038	790	1,205	896	3,120	3,511	10
	Southern Registration District.																					
11	Belgaum	2,810	2,210	3,208	3,404	2,071	2,122	1,766	1,650	943	794	2,460	2,296	2,692	2,325	2,378	1,779	1,910	1,435	3,346	3,913	11
12	Dhárwár	3,392	3,058	3,247	3,340	1,003	1,564	1,290	1,208	706	762	2,207	2,292	2,315	2,016	2,193	1,548	1,903	1,518	2,944	3,513	12
13	Bijápur	2,236	1,811	2,010	2,006	958	887	547	581	263	297	800	847	1,098	1,098	1,127	801	1,039	700	1,832	2,204	13
14	Kánara	1,597	1,254	659	702	287	364	196	201	253	275	786	941	974	709	923	569	803	532	813	953	14
	Gujarat Registration District.																					
15	Surat	2,756	2,514	2,080	2,114	601	645	381	385	381	378	894	1,169	1,067	1,077	1,116	810	1,174	907	2,322	2,498	15
16	Broach	1,714	1,626	1,323	1,227	283	302	188	220	155	175	649	698	822	713	895	621	895	636	1,212	1,352	16
17	Kaira	4,117	4,463	2,590	2,334	484	420	455	327	366	281	1,260	1,117	1,579	1,193	1,642	1,005	1,866	1,078	3,001	2,916	17
18	Panch Mahála	921	821	558	551	238	203	185	180	160	165	476	457	551	419	582	316	552	320	641	884	18
19	Ahmedabad...	3,643	3,193	2,607	2,490	573	468	391	386	433	366	1,423	1,267	1,695	1,432	1,753	1,296	1,651	1,279	1,677	1,943	19
	Sind Registration District.																					
20	Karáchi	1,708	1,575	1,020	1,038	565	511	428	343	306	274	1,192	990	1,388	903	976	580	706	388	1,278	1,035	20
21	Hyderabad	1,221	1,060	585	497	290	259	244	164	249	228	818	795	934	715	801	505	695	393	989	825	21
22	Thar and Párkar	674	646	486	465	247	215	165	102	151	119	368	308	426	308	425	266	427	264	1,002	689	22
23	Shikárpur	2,416	2,083	782	737	292	254	190	164	192	250	710	938	892	926	872	594	809	493	1,297	1,116	23
24	Upper Sind Frontier ...	469	409	187	154	71	50	44	32	36	46	121	168	145	156	132	113	109	95	252	174	24
	Total for the Presidency...	72,139	61,897	52,400	52,059	19,137	18,893	14,659	13,714	11,913	11,754	34,227	32,261	37,451	20,960	33,386	22,646	30,311	21,702	49,598	52,132	
	Ratios per 1,000 living ...	212·15	181·80	49·15	46·80	14·04	15·08	14·28	17·27	15·40	16·90	19·85	19·12	25·45	23·15	34·42	25·98	52·55	40·17	117·08	105·43	

ANNUAL FORM No. V.—DEATHS *registered according to* CLASSES *in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during the year 1899.*

1	2	3						4						5					
No.	District.	POPULATION ACCORDING TO CENSUS OF 1891.						NUMBER OF DEATHS REGISTERED.						RATIO OF DEATHS PER 1,000 OF POPULATION.					
		Mahomedans.	Hindus.	Christians.	Pársis.	Other classes.	Total.	Mahomedans.	Hindus.	Christians.	Pársis.	Other classes.	Total.	Mahomedans.	Hindus.	Christians.	Pársis.	Other classes.	Total.
	Western Registration District.																		
1	Khándesh	112,049	1,260,341	642	508	86,779	1,460,319	3,274	54,909	6	8	11	58,208	29·22	43·57	9·35	15·75	0·13	39·86
2	Násik	42,059	784,713	1,188	407	12,720	841,087	2,582	39,068	67	6	9	41,732	61·39	49·79	56·40	14·74	0.71	49·62
3	Thána	36,682	729,178	42,533	3,886	6,688	818,967	2,122	26,553	1,662	91	28	30,456	57·85	36·41	39·08	23·42	4·19	37·19
4	City of Bombay ...	155,247	568,516	29,712	47,458	5,211	806,144	11,342	41,142	1,561	1,656	361	56,062	73·06	72·37	52·54	34·90	69·28	69·53
5	Kolába	28,938	561,609	879	201	3,152	594,779	889	18,607	25	2	66	19,589	30·72	33·13	28·44	9·75	20·94	32·93
	Central Registration District.																		
6	Ahmednagar	47,071	834,787	5,234	188	376	887,656	1,873	27,404	56	6	9	29,348	39·79	32·83	10·70	31·91	23·94	33·06
7	Poona	51,200	1,002,248	4,911	2,026	1,064	1,061,449	3,405	48,283	211	57	761	52,717	66·50	48·17	42·96	28·13	...	49·67
8	Sholápur	53,971	695,384	647	232	21	750,255	1,702	22,356	15	3	1	24,077	31·54	32·15	23·18	12·93	47·62	32·09
9	Sátára	43,256	1,181,540	425	134	156	1,225,511	1,615	40,499	17	2	103	42,236	37·34	34·28	40·00	14·92	...	34·46
10	Ratnágiri	79,673	1,021,997	4,142	15	35	1,105,862	2,154	21,928	58	...	2	24,142	27·03	21.45	14·00	...	57·14	21·83
	Southern Registration District.																		
11	Belgaum	80,484	924,892	5,809	61	207	1,011,453	4,152	41,075	277	1	7	45,512	51·59	44·41	47·68	16·39	33·82	44.99
12	Dhárwár	131,000	915,898	3,441	135	59	1,050,533	5,279	37,187	166	...	17	42,649	40·20	30·78	48·24	...	288·14	40·59
13	Bijápur	88,522	706,957	774	24	9	796,286	2,362	20,757	18	...	4	23,141	26·68	29·38	23·26	...	444·44	29·06
14	Kánara	26,460	404,208	15,444	10	34	446,156	943	12,473	371	...	4	13,791	35·64	30·86	24·02	...	117·65	30·91
	Gujarát Registration District.																		
15	Surat	52,307	584,348	875	12,757	37	649,824	2,081	22,810	14	364	...	25,269	39·79	39·04	37·33	28·53	...	38·88
16	Broach	71,263	248,998	88	3,273	17,828	341,450	3,394	12,206	2	103	1	15,706	47·63	49·02	22·73	31·47	0·06	46·00
17	Kaira	77,443	791,685	2,222	153	26	971,529	2,495	29,962	65	2	...	32,524	33·64	37·85	29·25	13·07	...	37·32
18	Panch Mahals	18,651	283,488	48	108	11,086	313,381	1,342	7,645	1	...	3	8,991	71·95	26·97	20·83	...	0·27	28·69
19	Ahmedabad	90,487	828,383	803	835	415	920,928	2,807	27,082	27	30	...	29,946	31·02	32·69	33·41	35·93	...	32·52
	Sind Registration District.																		
20	Karáchi...	543,188	100,646	2,447	1,403	3,324	561,013	13,108	3,784	98	38	177	17,205	24·13	37·60	40·05	26·99	49·94	30.67
21	Hyderabad	691,948	175,000	179	46	16,663	883,836	7,947	4,196	2	...	112	12,257	11·48	23.98	11·17	...	6·72	13·87
22	Thar and Párkar ...	185,942	91,301	8	1	55,149	332,401	3,259	3,396	...	...	1,098	7,753	17·53	37·20	...	...	19·89	23·32
23	Shikárpur	728,661	182,906	83	71	3,337	915,058	11,823	4,095	1	2	77	15,998	16·23	22·39	12·05	28·17	23·07	17·48
24	Upper Sind Frontier ...	155,408	18,606	50	8	397	174,469	2,519	429	...	...	12	2,960	16·21	23·06	...	...	30·23	16·97
	Total for the Presidency.	3,501,910	14,397,629	122,089	73,945	224,773	18,320,346	94,469	567,846	4,720	2,371	2,863	672,269	26·98	38·12	38·66	32·06	12·74	35·72

ANNUAL FORM No. VI.

ANNUAL FORM NO. VI.—DEATHS *registered from* DIFFERENT CAUSES *in the* DISTRICTS *and* TOWNS *of the* BOMBAY PRESIDENCY *during the year 1899.*

1	2	3	4	5	6	7	8	9					10	11	12								13
								Injuries.							Ratio of Deaths per 1,000 on Population.								
								Suicide.													From all causes.		
No.	Districts and Towns.	Population according to Census of 1891.	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and Diarrhœa.	Male.	Female.	Wounding or Accident.	Snake-bite or killed by wild beasts.	Total.	All other causes.	Total deaths from all causes.	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and Diarrhœa.	Injuries.	All other causes.	For the year.	Mean of previous five years.	No.
	A.—DISTRICTS.																							
	Western Registration District.																							
1	Khándesh	1,403,661	...	32	620	21,421	13,188	7	16	272	56	351	20,183	55,795	...	0·02	0·44	15·26	9·39	0·25	14·38	39·75	36·41	1
2	Násik	791,768	...	13	6.100	11,922	5,655	3	6	147	40	196	13,071	36,957	...	0·02	7·70	15·06	7·14	0·25	16·51	46·67	41·21	2
3	Thána	788.904	...	430	3,967	15,458	1,428	19	15	185	148	367	7,199	28,849	...	0·55	5·03	19·59	1·81	0·46	9·12	36·56	29·92	3
4	Kolába	571,607	...	233	757	9,513	2,112	2	8	127	55	192	5,996	18,803	...	0·41	1·32	16·64	3·69	0·34	10·49	32·89	30·94	4
	Central Registration District.																							
5	Ahmednagar	837,162	...	25	1,010	5,197	3,564	3	5	165	45	218	15,307	25,321	...	0·03	1·20	6·21	4·26	0·26	18·29	30·25	35·25	5
6	Poona	890,004	1	62	7,365	15,875	6,374	7	9	161	35	212	4,988	34,877	...	0·07	8·27	17·84	7·16	0·24	5·61	39·19	37·14	6
7	Sholápur...	648,186	...	50	941	9,984	6,599	6	1	164	26	197	1,090	18,861	...	0·08	1·45	15·40	10·18	0·30	1·68	29·09	33·08	7
8	Sátára	1,175,242	2	20	7,761	6,219	6,799	2	2	296	78	378	18,463	39,672	...	0·02	6·60	5·32	5·78	0·32	15·70	33·74	37·61	8
9	Ratnágiri	1,081,468	2	30	470	11,014	4,080	10	2	230	273	515	7,043	23,154	...	0·03	0·43	10·18	3·77	0·48	6·51	21·41	24·26	9
	Southern Registration District.																							
10	Belgaum...	949,856	4,301	9	10.502	2,677	4,312	17	38	261	34	350	19,344	41,495	4·53	...	11·05	2·82	4·54	0·37	20,37	43·68	36·65	10
11	Dhárwár...	928,179	1,163	145	6,639	8,332	1,782	31	34	243	46	354	17,989	36,404	1·25	0·15	7·15	8·98	1·92	0·38	19·38	39·22	39·44	11
12	Bijápur	774.915	136	186	3,070	2,768	3,166	18	28	155	29	230	12,887	22,443	0·17	0·25	3·96	3·57	4·09	0·29	16·63	28·96	30·04	12
13	Kánara	420,928	115	90	431	6,018	728	18	26	117	21	182	5,690	13,254	0·28	0·21	1·02	14·30	1·73	0·43	13·51	31·49	29·49	13
	Gujarát Registration District.																							
14	Surat	526,479	...	...	772	11,072	307	3	7	122	42	174	6,870	19,195	...	...	1·46	21·03	0·58	0·33	13·05	36·46	32·93	14
15	Broach	289,243	...	...	425	8,075	252	1	6	91	25	123	8,807	12,682	...	...	1·47	27·92	0·87	0·43	13·16	43·85	39·50	15
16	Kaira	805,420	...	...	1,396	4.507	1,086	15	20	395	77	507	21,754	29,250	...	...	1·73	5·60	1·35	0·63	27·01	36·32	33·57	16
17	Panch Mahális	285,755	...	2	219	5,693	36	2	5	97	30	134	820	7,107	...	0·01	·76	20·63	0·13	0·47	2·87	24·88	25·52	17
18	Ahmedabad	726,832	...	...	39	16,346	358	9	12	160	46	227	3,057	20,027	...	...	0·05	22·50	0·49	0·31	4·21	27·56	29·14	18
	Sind Registration District.																							
19	Karáchi	464,004	330	12	84	6,125	129	6	3	3	70	202	1,068	7,954	0·71	0·03	0·18	13·21	0·28	0·44	2·30	17·15	18·16	19
20	Hyderabad	8?9.324	...	1	76	8,758	36	5	7	140	134	286	625	9,782	...	0·01	0·09	10·56	0·04	0·34	0·75	11·79	13·23	20
21	Thar and Párkar ...	328,703	...	...	...	6,604	32	2	4	71	57	134	137	6,907	...	...	...	20·09	0·10	0·41	0·42	21·02	17·47	21
22	Shikárpur	832,122	...	2	...	12,161	98	4	6	223	93	326	544	13,131	...	...	...	14·99	0·12	0·40	0·66	16·17	22·24	22
23	Upper Sind Frontier ...	166,211	...	...	...	2,537	6	2	1	33	20	56	45	2,644	...	..	..	15·26	0·03	0·30	0·27	15·90	21·12	23
	Total of Districts ...	16,515,973	6,050	1,342	52,644	208,513	62,127	192	261	3,978	1,480	5,911	187,977	524,564	0·37	0·08	3·19	12·62	3·77	0·36	11·38	31·77	31·04	

B.—TOWNS.

	Khándesh District.																					
1	Dhulia	21,871	...	1	...	285	136	1	1	5	...	7	468	897	...	0·05	...	13·03	6·22	0·32	21·40	41·01	34·38	1
2	Nandurbár	7,670	...	...	...	230	119	...	...	7	2	9	147	505	...	...	...	29·98	15·51	1·17	19·17	65·84	37·81	2
3	Chopda	15,655	...	3	...	167	174	...	...	4	...	4	292	640	...	0·19	...	10·67	11·11	0·26	18·63	40·88	37·36	3
4	Nasirabad	11,492	...	...	...	8	153	...	...	2	...	2	208	371	...		...	0·70	13·35	0·17	18·15	32·37	31·23	4
	Násik District.																					
5	Násik	24,406	6	9	2,243	165	355	...	1	23	1	25	951	3,754	0·25	0·37	91·90	6·76	14·50	1·02	38·97	153·77	53·47	5
6	Yeola	18,861	...	...	39	77	227	...	...	6	...	6	421	770	...	...	2·07	4·08	12·04	0·32	22·32	40·83	35·63	6
7	Deoláli Cantonment ...	2,293	...	...	59	8	2	...	...	...	...	...	30	99	...	...	25·73	3·49	0·87	...	13·09	43·18	27·04	7
8	Málegaon „ ...	3,759	...	...	...	32	20	...	...	1	...	1	99	152	...	...	...	8·51	5·32	0·26	26·34	40·44	40·43	8
	Thána District.																					
9	Thána	17,455	...	26	199	115	181	...	1	8	...	9	390	920	...	1·49	11·40	6·59	10·36	0·52	22·34	52·71	33·51	9
10	Kalyán	12,608	...	...	196	310	42	...	...	3	...	3	136	687	...	...	15·55	24·59	3·33	0·24	10·79	54·49	38·39	10
11	City of Bombay ..	806,144	111	439	15,874	5,020	4,261	50	33	444	4	531	29,826	56,062	0·14	0·54	19·69	6·23	5·28	0·66	36·99	69·53	45·57	11
	Kolába District.																					
12	Panvel	10,417	...	39	107	32	56	...	...	4	...	4	207	445	...	3·74	10·28	3·07	5·38	0·38	19·87	42·32	33·11	12
13	Alibág	5,886	...	...	38	11	20	...	...	1	...	1	88	158	...	...	6·46	1·89	3·40	0·17	14·95	26·84	37·38	13
14	Mahád	6,869	...	...	...	75	28	...	...	1	...	1	79	183	...	...	...	10·92	4·08	0·15	11·50	26·64	25·48	14
	Ahmednagar District.																					
15	Ahmednagar	36,031	1	27	1,576	42	389	2	...	7	...	9	1,417	3,461	0·03	0·75	43·74	1·17	10·80	0·25	39·32	96·06	52·12	15
16	Sangamner	9,733	...	1	16	48	75	...	...	2	...	2	266	408	...	0·10	1·64	4·93	7·71	0·21	27·32	41·91	45·00	16
17	Ahmednagar Cantonment	4,730	...	...	79	10	3	1	...	1	...	2	64	158	...	...	16·70	2·12	0·63	0·42	13·53	33·40	19·45	17
	Poona District.																					
18	Poona	118,657	1	4	10,229	1,974	1,400	...	...	20	1	21	1,561	15,190	0·01	0·03	86·21	16·63	11·80	0·18	13·16	128·02	40·94	18
19	Junnar	11,905	...	...	11	59	119	...	...	5	1	6	185	380	...	...	0·92	4·96	10·00	0·50	15·54	31·92	33·52	19
20	Poona Cantonment ...	31,134	...	...	1,262	74	47	2	2	7	1	12	461	1,856	...	...	40·53	2·38	1·51	0·38	14·81	59·61	30·93	20
21	Kirkee do. ...	9,749	...	1	180	38	120	1	...	1	2	4	71	414	...	0·10	18·46	3·90	12·31	0·41	7·29	42·47	31·59	21
	Sholápur District.																					
22	Sholápur	61,564	1	26	818	226	115	6	5	26	1	38	2,176	3,400	0·02	0 42	13·29	3·67	1·87	0·62	35·34	55·23	49·99	22
23	Bársi	20,552	...	...	8	417	403	...	1	9	...	10	40	878	...	...	0·39	20·29	19·61	0·49	1·94	42·72	46·86	23
24	Pandharpur	19,953	...	...	...	284	84	...	...	1	...	1	569	938	...	...	...	14·23	4·21	0·05	28·52	47·01	50·67	24
	Sátára District.																					
25	Sátára	25,748	...	...	62	22	401	3	...	5	...	8	353	846	...	...	2·40	0·86	15·57	0·31	13·71	32·85	37·36	25
26	Karád	12,085	...	2	908	16	20	...	1	1	...	2	256	1,204	...	0·16	75·13	1·32	1·65	0·17	21·18	99·62	54·19	26
27	Wái	12,436	...	...	9	51	66	...	...	...	...	...	388	514	...	...	0·72	4·10	5·31	...	31·20	41·33	41·25	27
	Ratnágiri District.																					
28	Vengurla	10,121	...	...	3	156	26	...	...	2	...	2	181	368	...	...	0·29	15·41	2·57	0·20	17·88	36·36	37·04	28
29	Ratnágiri	14,274	...	...	169	155	61	...	...	6	...	6	229	620	...	...	11·84	10·86	4·27	0·42	16·04	43·43	21·09	29

FORM No. VI—*continued.*

1	2	3	4	5	6	7	8	9					10	11	12								13
								Injuries.							Ratio of Deaths per 1,000 of Population.								
								Suicide.													From all causes.		
No.	Districts and Towns.	Population according to Census of 1891.	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and Diarrhœa.	Male.	Female.	Wounding or Accident.	Snake-bite or killed by wild beasts.	Total.	All other causes.	Total deaths from all causes.	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and Diarrhœa.	Injuries.	All other causes.	For the year.	Mean of previous five years.	No.
	B.—TOWNS—*continued*																							
	Belgaum District.																							
30	Belgaum	28,342	37	1	1,694	86	40	2	...	3	1	6	428	2,292	1·31	0·03	59·77	3·03	1·41	0·21	15·10	80·87	55·22	30
31	Gokák	12,106	129	...	48	22	80	...	1	2	...	3	173	455	10·65	...	3·96	1·82	6·61	0·25	14·29	37·58	45·43	31
32	Athni	10,416	1	2	2	15	71	...	3	9	1	13	316	420	0·09	0·19	0·19	1·44	6·82	1·25	30·34	40·32	40·51	32
33	Belgaum Cantonment...	10,733	6	...	526	18	13	...	1	6	...	7	280	850	0·56	...	49·00	1·67	1·21	0·65	26·09	79·19	46·77	33
	Dhárwár District.																							
34	Dhárwár	32,583	102	...	775	86	55	3	7	7	1	18	535	1,571	3·13	...	23·78	2·64	1·69	0·55	16·42	48·21	40·42	34
35	Hubli	52,194	70	...	1,376	127	272	3	3	18	2	26	1,498	3,369	1·34	...	26·36	2·43	5·21	0·49	28·70	64·54	42·39	35
36	Gadag-Bettigiri ...	23,821	...	...	330	24	73	...	4	5	1	10	429	866	...	...	13·85	1·01	3·06	0·42	18·01	36·35	35·72	36
37	Ránebennur	13,756	...	...	63	93	35	1	1	3	...	5	243	439	...	...	4·58	6·76	2·54	0·36	17·67	31·91	30·02	37
	Bijápur District.																							
38	Bijápur...	16,749	...	6	4	46	70	...	3	16	...	19	428	573	...	0·36	0·24	2·75	4·18	1·13	25·55	34·21	35·52	38
39	Kaládgi...	4,622	...	...	...	9	34	...	...	7	...	7	75	125	...	...	...	1·95	7·36	1·51	16·23	27·04	30·72	39
	Kánara District.																							
40	Kárwár...	14,515	...	...	...	118	9	...	...	1	...	1	162	290	...	...	...	8·13	0·62	0·07	11·16	19·98	19·43	40
41	Kumta	10,713	...	...	...	84	16	1	...	4	...	5	142	247	...	...	...	7·84	1·49	0·47	13·26	23·06	22·31	41
	Surat District.																							
42	Surat	108,631	...	...	625	514	457	5	3	29	3	40	3,909	5,545	...	...	5·75	4·13	4·21	0·37	35·98	51·04	38·39	42
43	Bulsár	14,714	...	...	209	50	21	...	...	1	...	1	248	529	...	...	14·20	3·40	1·43	0·07	16·85	35·95	43·76	43
	Broach District..																							
44	Broach	40,137	...	...	450	181	191	4	1	15	1	21	1,648	2,491	...	...	11·21	4·51	4·76	0·52	41·06	62·06	32·40	44
45	Jambusar	12,070	...	...	27	135	35	...	...	8	3	11	325	533	...	...	2·24	11·18	2·90	0·91	26·93	44·16	35·71	45
	Kaira District.																							
46	Kaira	10,101	...	...	...	147	8	...	...	3	2	5	243	403	...	...	...	14·55	0·79	0·49	24·06	39·89	30·19	46
47	Nadiád	29,044	...	...	1	515	216	2	1	11	2	16	640	1,388	...	...	0·03	17·73	7·43	0·55	22·04	47·79	45·78	47
48	Borsad	12,159	...	...	1	29	118	...	...	3	...	3	542	693	...	...	0·08	2·38	9·70	0·24	44·58	56·99	43·88	48
49	Kapadvanj	14,805	...	...	118	45	88	...	...	3	1	4	535	790	...	...	7·97	3·04	5·94	0·27	36·14	53·36	30·84	49

	Panch Mahâls District.																					
50	Godhra	14,691	...	...	456	485	38	...	...	13	...	13	361	1,353	...	...	31·04	33·01	2·59	0·89	24·57	92·10	37·65	50
51	Dohad	12,935	...	7	25	338	27	1	...	10	...	11	123	531	...	0·54	1·94	26·13	2·09	0·85	9·51	41·05	35·78	51
	Ahmedabad District.																					
52	Ahmedabad	144,192	...	...	12	2,884	311	3	2	67	3	75	4,819	8,101	...	...	0·08	20·00	2·16	0·52	33·42	56·18	43·99	52
53	Gogho	6,637	...	...	...	76	14	1	...	1	2	4	86	180	...	...	...	11·45	2·11	0·60	12.96	27·12	35·01	53
54	Viramgám	23,197	...	...	...	418	80	...	...	1	1	2	517	1,017	...	...	...	18·02	3·45	0·08	22·29	43·84	39·12	54
55	Dholka	16,494	...	...	...	279	35	1	1	7	3	12	258	584	...	...	...	16·92	2·12	0·73	15·64	35·41	34·70	55
56	Ahmedabad Cantonment	3,576	...	...	...	32	...	—	...	1	...	1	4	37	...	...	...	8·95	...	0·28	1·12	10·35	13·70	56
	Karáchi District.																					
57	Karáchi...	97,009	2,064	10	2,275	474	702	...	2	53	5	60	3,666	9,251	21·28	0·10	23·45	4·88	7·24	0·62	37·79	95·36	48·68	57
	Hyderabad District.																					
58	Hyderabad	54,512	...	...	846	321	287	5	1	15	5	26	995	2,475	...	...	15·52	5·89	5·26	0·48	18·25	45·40	35·04	58
	Thar and Párkar District.																					
59	Umarkot.	3,698	...	...	...	845	...	...	...	...	1	1	...	846	...	...	...	228·50	...	0·27	...	228·77	34·61	59
	Shikárpur District.																					
60	Shikárpur	41,991	...	...	3	421	59	2	1	9	...	12	1,208	1,703	...	...	0·09	10·02	1·40	0·29	28·77	40·56	33·20	60
61	Sukkur	28,935	...	...	...	370	47	...	...	18	2	20	331	768	...	...	...	12·78	1·62	0·69	11·44	26·53	30·10	61
62	Lárkhána	12,010	...	...	...	285	1	...	...	2	...	2	108	396	...	...	...	23·73	0·08	0·17	8·99	32·97	15·07	62
	Upper Sind Frontier District.																					
63	Jacobabad	8,258	...	...	1	246	3	...	...	4	1	5	61	316	...	...	0·12	29·79	0·36	0·49	7·51	38·27	32·82	63
	Total of Towns ...	2,304,373	2,529	604	43,952	19,925	12,609	100	80	957	54	1,191	66,895	147,705	1·09	0·26	19·07	8·65	5·47	0·52	29·03	64·09	41·45	
	Total for the Presidency.	18,820,346	8,579	1,946	96,596	2,28,438	74,736	292	341	4,935	1,534	7,102	254,872	672,269	0·46	0·10	5·13	12 14	3·97	0·38	13·54	35·72	32·31	

N.B.—Districts A in this statement do not include the population or deaths of Town B. In the other statements "Districts" include Towns.

ANNUAL FORM No. VII—DEATHS *registered from* CHOLERA *in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during each month of the year 1899.*

1	2	3		4		5												6			7			8	9
No.	Districts.	Circles of Registration.		Villages.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Ratio of Deaths per 1,000 of Population.			Mean ratio per 1,000 of previous five years.	No.
		Number in each District.	Number from which deaths from Cholera were reported.	Number in each District.	Number from which deaths from Cholera were reported.													Male.	Female.	Total.	Male.	Female.	Total.		
	Western Registration District.																								
1	Khándesh	25	...	2,828	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·39	1
2	Násik	16	1	1,647	...	...	...	...	4	2	...	...	...	...	...	...	...	1	5	6	...	0·01	0·01	1·63	2
3	Thána	11	...	1,626	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·37	3
4	City of Bombay ...	1	1	1	1	13	7	25	14	11	2	11	9	1	4	8	6	65	46	111	0·13	0·15	0·14	0·58	4
5	Kolába	11	...	1,466	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·64	5
	Central Registration District.																								
6	Ahmednagar	14	1	1,348	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	2·12	6
7	Poona	12	1	1,191	1	...	...	...	...	...	...	...	2	...	...	...	...	2	...	2	...	...	...	3·92	7
8	Sholápur	10	2	716	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	2·40	8
9	Sátára	15	2	1,346	...	...	...	...	...	2	...	...	...	...	...	...	...	2	...	2	...	...	...	0·05	9
10	Ratnágiri	10	1	1,310	1	...	...	...	...	...	...	...	...	...	2	...	...	2	...	2	...	...	...	0·83	10
	Southern Registration District.																								
11	Belgaum	11	11	1,076	259	10	197	953	1,557	303	411	340	253	176	249	25	...	2,287	2,187	4,474	4·48	4·36	4·42	3·04	11
12	Dhárwár	17	10	1,303	102	...	308	558	376	62	12	9	8	1	...	...	1	714	621	1,335	1·35	1·19	1·27	2·04	12
13	Bijápur...	10	3	1,112	8	...	...	...	...	...	83	10	...	2	20	...	21	75	61	136	0·19	0·15	0·17	2·51	13
14	Kánara...	13	4	1,185	9	...	36	31	17	15	13	3	...	...	...	...	...	59	56	115	0·25	0·26	0·26	0·35	14
	Gujarát Registration District.																								
15	Surat	10	...	795	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·72	15
16	Broach...	8	...	403	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·86	16
17	Kaira	11	...	579	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·26	17
18	Panch Mahális ...	7	...	654	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·32	18
19	Ahmedabad	12	..	852	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·39	19
	Sind Registration District.																								
20	Karáchi	15	3	792	81	...	...	1	10	1,804	399	105	57	18	9	...	...	1,330	1,064	2,394	4·26	4·24	4·27	...	20
21	Hyderabad	13	...	1,251	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
22	Thar and Párkar ...	9	...	309	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
23	Shikárpur	17	...	1,106	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
24	Upper Sind Frontier ...	5	...	295	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
	Total for the Presidency.	283	40	25,191	462	23	548	1,568	1,980	2,199	911	478	329	198	284	33	28	4,539	4,040	8,579	0·46	0·41	0·46	1·48	

ANNUAL FORM No. VIII.—DEATHS *registered from* SMALL-POX *in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during each month of the year 1899.*

1	2	3		4		5												6			7		8			9	10
No.	District.	Circles of Registration.		Villages.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Number of these deaths among Children.		Total ratio of deaths per 1,000 of population.			Mean ratio per 1,000 of previous five years.	No.
		Number in each District.	Number from which deaths from Small-pox were reported.	Number in each District.	Number from which deaths from Small-pox were reported.													Male.	Female.	Total.	Under 1 year.	1 to 10 years.	Male.	Female.	Total.		
	Western Registration District.																										
1	Khándesh	25	13	2,828	20	7	4	5	7	2	2	1	3	...	...	1	4	23	13	36	15	17	0·03	0·02	0·02	0·62	1
2	Násik	16	4	1,647	5	9	3	1	7	2	...	...	...	...	...	...	...	14	8	22	1	5	0·03	0·02	0·03	0·13	2
3	Thána	11	9	1,626	91	21	25	50	60	41	25	37	29	28	21	40	79	231	225	456	122	264	0·54	0·57	0·56	0·09	3
4	City of Bombay... ...	1	1	1	1	7	18	24	32	32	29	41	29	27	21	36	143	247	192	439	141	151	0·48	0·64	0·54	0·40	4
5	Kolába	11	7	1,466	46	3	5	9	18	26	39	24	26	19	19	32	52	128	144	272	99	151	0·43	0·49	0·46	0·19	5
	Central Registration District.																										
6	Ahmednagar	14	10	1,348	15	4	10	4	10	9	3	7	...	...	...	...	6	25	28	53	26	22	0·05	0·06	0·06	0·10	6
7	Poona	12	10	1,191	34	2	10	14	6	8	2	2	11	4	1	3	4	38	29	67	14	24	0·07	0·06	0·06	0·14	7
8	Sholápur	10	7	716	19	3	1	14	6	13	10	7	4	1	1	4	12	37	39	76	22	18	0·10	0·11	0·10	0·13	8
9	Sátára	15	6	1,346	9	3	2	3	1	1	5	1	1	...	...	...	5	12	10	22	7	11	0·02	0·02	0·02	3·38	9
10	Ratnágiri	10	6	1,310	17	...	...	...	...	1	3	3	2	3	1	7	10	14	16	30	7	16	0·03	0·03	0·03	0·14	10
	Southern Registration District.																										
11	Belgaum	11	5	1,076	9	1	3	2	1	...	1	1	...	...	1	...	2	8	4	12	8	4	0·0.	...	0·01	0·12	11
12	Dhárwar...	17	8	1,303	38	23	23	17	15	7	7	14	10	3	7	6	11	75	70	145	23	76	0·14	0·13	0·14	0·17	12
13	Bijápur	10	9	1,112	65	29	39	27	13	12	12	5	5	4	2	9	35	84	108	192	52	89	0·21	0·27	0·24	0·09	13
14	Kánara	13	5	1,185	15	4	8	7	7	10	20	11	9	4	3	6	1	45	45	90	10	33	0·19	0·21	0·20	0·11	14
	Gujarát Registration District.																										
15	Surat	10	...	795	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	15
16	Broach	8	...	403	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	16
17	Kaira	11	...	579	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·07	17
18	Panch Mahális	7	2	654	1	...	...	...	...	...	...	...	...	...	...	2	7	2	7	9	4	5	0·01	0·05	0·03	0·20	18
19	Ahmedabad	12	...	852	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09	19
	Sind Registration District.																										
20	Karáchi	15	3	792	4	...	1	2	4	...	2	1	...	1	1	...	10	10	12	22	3	3	0·03	0·05	0·04	0·16	20
21	Hyderabad	13	1	1,251	1	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	1	...	...	...	0·10	21
22	Thar and Párkar ...	9	...	309	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·06	22
23	Shikárpur	17	1	1,106	1	...	...	...	...	...	...	...	...	2	...	...	...	1	1	2	1	1	...	...	...	0·12	23
24	Upper Sind Frontier ...	5	...	295	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·14	24
	Total for the Presidency.	283	107	25,191	391	116	152	179	187	164	161	155	129	94	78	148	383	905	951	1,946	552	890	0·10	0·10	0·10	0·19	

ANNUAL FORM No. IX.—DEATHS *registered from* FEVERS *in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during each month of the year 1899.*

1	2	3		4		5												6			7			8	9
Number.	Districts.	CIRCLES OF REGISTRATION.		VILLAGES.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.			RATIO OF DEATHS PER 1,000 OF POPULATION.			Mean ratio per 1,000 for previous five years.	Number.
		Number in each District.	Number from which deaths from Fevers were reported.	Number in each District.	Number from which deaths from Fevers were reported.													Male.	Female.	Total.	Male.	Female.	Total.		
	Western Registration District.																								
1	Khándesh	25	25	2,828	2,175	1,796	1,527	2,449	2,105	1,673	1,516	1,655	2,015	1,319	1,490	2,011	2,559	11,719	10,392	22,111	15·72	14·54	15·14	25·15	1
2	Násik	16	16	1,647	1,429	1,393	1,074	1,667	1,039	935	923	1,008	1,052	883	762	967	1,039	6,443	5,761	12,204	14·97	14·02	14·51	24·85	2
3	Thána	11	11	1,626	1,539	2,445	1,635	1,731	1,347	941	949	866	1,172	1,208	1,124	1,205	1,261	8,285	7,600	15,883	19·40	19·41	19·39	19·65	3
4	City of Bombay ...	1	1	1	1	474	558	760	474	370	200	212	256	291	411	409	606	3,106	1,914	5,020	6·12	6·41	6·23	10·05	4
5	Kolába...	11	11	1,466	1,340	1,192	842	1,032	681	718	616	669	805	835	723	752	766	4,960	4,671	9,631	16·59	15·78	16·19	18·13	5
	Central Registration District.																								
6	Ahmednagar	14	14	1,348	962	454	356	391	529	463	544	710	380	320	333	359	455	2,840	2,457	5,297	6·30	5·63	5·97	20·06	6
7	Poona	12	12	2,191	1,163	1,434	1,193	1,746	1,713	1,410	1,470	1,643	2,137	1,583	1,849	936	906	9,440	8,580	18,020	17·45	16·48	16·98	21·14	7
8	Sholápur	10	10	716	686	641	673	885	949	946	809	968	1,145	1,016	1,085	703	1,091	5,792	5,119	10,911	15·19	13·87	14·54	21·16	8
9	Sátára	15	15	1,346	1,067	606	426	631	6·2	496	500	516	456	523	548	466	508	3,382	2,956	6,338	5·51	4·83	5·17	22·05	9
10	Ratnágiri	10	10	1,310	1,192	1,331	1,169	1,710	417	442	399	551	617	1,292	1,136	1,184	1,074	5,526	5,805	11,325	10·74	9·80	10·24	14·72	10
	Southern Registration District.																								
11	Belgaum	11	11	1,076	674	263	169	161	206	190	200	245	236	191	367	276	281	1,465	1,353	2,818	2·87	2·70	2·79	12·67	11
12	Dhárwár	17	17	1,303	1,159	799	733	736	678	600	551	528	606	582	832	945	1,072	4,368	4,294	8,662	8·28	8·21	8·25	15 60	12
13	Bijápur	10	10	1,112	681	214	197	213	185	216	248	237	333	180	237	288	275	1,497	1,326	2,823	3·27	3·33	3·56	17·56	13
14	Kánara	13	13	1,185	1,060	679	601	523	494	569	509	550	472	410	418	448	607	3,172	3,048	6,220	13·54	14·38	13·94	15·62	14
	Gujarát Registration District.																								
15	Surat	10	10	795	744	1,258	1,370	1,391	929	882	701	759	791	727	817	884	1,127	5,800	5,836	11,636	18·01	17·77	17·91	22·83	15
16	Broach...	8	8	403	385	1,001	797	1,159	749	635	4·8	51·	446	392	480	682	1,082	4,389	4,002	8,391	25·09	24·03	24·57	30·87	16
17	Kaira	11	11	579	520	655	431	358	272	222	211	265	236	239	366	707	1,281	2,822	2,421	5,243	6·13	5·89	6·02	26 00	17
18	Panch Mahás ...	7	7	654	609	1,046	521	576	519	419	386	388	395	323	395	574	1,186	3,733	2,986	6,719	23·08	19·73	21·44	21·21	18
19	Ahmedabad	12	12	852	841	1,723	1,868	2,149	1,839	1,405	1,129	1,078	1,039	1,045	1,577	2,210	2,973	10,570	9,465	20,035	22·35	21·13	21·75	25·50	19
	Sind Registration District.																								
20	Karáchi	15	15	792	792	839	763	606	508	525	378	320	341	409	550	685	679	3,548	3,060	6,603	11·41	12 20	11·77	16·60	20
21	Hyderabad	13	13	1,251	1,251	987	1,03	987	724	635	582	462	417	564	675	926	1,093	5,083	3,996	9,079	10·58	9·96	10·27	13·09	21
22	Thar and Párkar ...	9	9	309	309	480	457	621	552	350	261	281	265	372	735	1,362	1,713	4,196	3,283	7,449	22 70	22·06	22·41	15·62	22
23	Shikárpur	17	17	1,106	1,106	1,581	1 319	1,180	1,001	900	791	790	694	936	1,290	1,381	1,374	6,952	6,285	13,237	11·09	14·91	11·47	20·65	23
24	Upper Sind Frontier.	5	5	295	295	280	240	207	182	186	169	133	158	238	345	328	317	1,475	1,308	2,783	15·33	16·72	15·95	19·25	24
	Total for the Presidency	283	283	25,191	21,980	23,639	19,949	23,269	18,694	16,059	14,554	15,344	16,495	15,878	18,541	20,688	25,328	120,540	107,898	228,488	12·38	11·87	12·14	19·66	

ANNUAL FORM No. IX-A.—DEATHS *registered from* PLAGUE *in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during each month of the year 1899.*

1	2	3		4		5												6			7			8	9
Number.	Districts.	CIRCLES OF REGISTRATION.		VILLAGES.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.			RATIO OF DEATHS PER 1,000 OF POPULATION.			Mean ratio per 1,000 for previous three years.	Number.
		Number in each District.	Number from which deaths from Plague were reported.	Number in each District.	Number from which deaths from Plague were reported.													Male.	Female.	Total.	Male.	Female.	Total.		
	Western Registration District.																								
1	Khándesh	25	5	2,828	22	162	142	154	23	1	2	...	79	47	5	...	...	312	308	620	0·42	0·43	0·42	0·07	1
2	Násik	16	12	1,647	154	128	269	281	127	61	130	768	1,911	2,976	1,608	155	27	4,454	3,987	8,441	10·26	9·70	10·03	1 20	2
3	Thána	11	11	1,626	146	499	677	970	503	279	114	281	383	226	175	103	152	2,556	1,896	4,362	5·98	4·61	5·33	3·05	3
4	City of Bombay ...	1	1	1	1	1,591	3,118	4,758	2,315	1,008	228	261	348	368	449	436	994	11,106	4,768	15,874	21·87	15·97	19·69	12·47	4
5	Kolába...	11	10	1,466	80	135	154	166	200	146	6	5	19	1	5	22	43	553	349	902	1·85	1·17	1·52	1·11	5
	Central Registration District.																								
6	Ahmednagar	14	12	1,348	93	22	23	20	6	3	5	20	373	1,173	839	148	51	1,287	1,394	2,681	2·85	3·19	3·02	0·27	6
7	Poona	12	12	1,191	262	80	115	389	314	276	377	2,722	5,947	4,839	2,873	882	233	10,085	8,962	19,047	18·64	17·22	17·94	3·22	7
8	Sholápur	10	7	716	59	57	27	42	12	20	3	3	63	80	289	476	695	893	874	1,767	2·34	2·37	2·36	1·74	8
9	Sátára	15	14	1,346	298	622	462	302	130	125	196	636	929	2,085	2,358	698	207	4,329	4,411	8,740	7·06	7·21	7·13	4·61	9
10	Ratnágiri	10	9	1,310	60	3	22	49	75	41	20	41	45	63	70	81	132	307	335	642	0·60	0·56	0·58	0·12	10
	Southern Registration District.																								
11	Belgaum	11	11	1,076	335	575	553	308	114	221	501	1,843	2,397	2,353	2,376	1,174	357	6,853	5,919	12,772	13·42	11·80	12·63	5·52	11
12	Dhárwár	17	17	1,303	382	1,869	693	221	26	79	72	222	576	1,376	1,917	1,364	708	4,979	4,204	9,183	9·43	8·04	8·74	8·81	12
13	Bijápur	10	9	1,112	124	364	159	88	36	5	12	117	227	526	752	538	250	1,639	1,435	3,074	4·12	3·60	3·86	0·41	13
14	Kánara	13	4	1,185	22	27	52	33	3	1	43	110	14	68	54	11	12	229	202	431	0·98	0·95	0·97	0·05	14
	Gujarát Registration District.																								
15	Surat	10	9	795	62	37	90	81	42	70	72	160	258	303	311	120	62	800	806	1,606	2·49	2·45	2·47	2·91	15
16	Broach...	8	7	403	12	161	242	186	67	32	...	77	98	64	15	...	...	449	473	902	2·56	2·72	2·64	0 43	16
17	Kaira	11	8	579	64	306	273	296	172	72	2	65	184	167	37	2	...	761	755	1,516	1·66	1·84	1·74	0·17	17
18	Panch Mahás... ...	7	6	654	34	278	342	73	...	6	1	...	...	...	...	...	...	324	376	700	1·19	2·49	2·23	0·21	18
19	Ahmedabad	12	2	852	4	...	2	6	1	...	...	...	1	9	11	20	1	33	18	51	0·04	0·04	0·05	0·04	19
	Sind Registration District.																								
20	Karáchi	15	7	792	20	17	54	538	1,112	430	39	12	8	23	27	17	32	1,568	791	2,359	5·05	3·15	4·20	3·77	20
21	Hyderabad	13	8	1,251	19	...	...	3	18	29	...	...	133	285	354	87	13	506	418	922	1·05	1·03	1·04	0·19	21
22	Thar and Párkar ...	9	...	309	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
23	Shikárpur	17	1	1,106	2	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	23
24	Upper Sind Frontier.	5	1	295	1	...	...	...	...	...	...	...	...	...	...	...	...	3	...	3	...	...	...	0·26	24
	Total for the Presidency ...	283	183	25,191	2,256	6,933	7,429	8,964	5,303	2,955	1,826	7,343	13,992	16,074	14,526	6,322	4,029	54,027	42,569	96,596	5·65	4·68	5·13	2·40	

ANNUAL FORM No. X.—DEATHS *registered from* DYSENTERY *and* DIARRHŒA *in the* DISTRICTS *of the* BOMBAY PRESIDENCY *during each month of the year 1899.*

1	2	3		4		5												6			7			8	9
Number.	District.	Circles of Registration.		Villages.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Ratio of Deaths per 1,000 of Population.			Mean ratio per 1,000 for previous five years.	Number.
		Number in each District.	Number from which Deaths from Dysentery and Diarrhœa were reported.	Number in each District.	Number from which Deaths from Dysentery and Diarrhœa were reported.													Male.	Female.	Total.	Male.	Female.	Total.		
	Western Registration District.																								
1	Khándesh	25	25	2,828	1,829	1,232	744	976	976	941	1,146	1,407	1,405	1,229	1,189	1,123	1,402	7,550	6,220	13,770	10·13	8·70	9·43	4·29	1
2	Násik	16	16	1,647	1,000	514	394	388	418	403	479	766	752	629	538	528	450	3,534	2,725	6,259	8·21	6·63	7·44	5·06	2
3	Thána	11	11	1,626	467	189	152	156	118	135	114	152	235	145	59	90	106	934	717	1,651	2·18	1·83	2·01	1·69	3
4	City of Bombay ...	1	1	1	1	433	369	463	406	332	207	202	330	290	262	304	663	2,559	1,702	4,261	5·04	5·70	5·23	3·32	4
5	Kolába...	11	11	1,466	648	238	186	193	174	207	181	198	266	217	104	100	152	1,190	1,026	2,216	3·98	3·46	3·72	3·35	5
	Central Registration District.																								
6	Ahmednagar	14	14	1,348	783	232	164	239	257	333	368	800	438	343	317	243	297	2,157	1,874	4,031	4·78	4·29	4·54	4·36	6
7	Poona	12	12	1,191	905	617	607	627	522	646	675	777	898	887	771	532	501	4,303	3,757	8,060	7·95	7·22	7·59	4·39	7
8	Sholápur	10	10	716	619	475	377	530	590	511	470	677	654	720	883	642	702	3,843	3,358	7,201	10·08	9·10	9·60	5·70	8
9	Sátára	15	15	1,346	915	496	424	493	450	547	540	790	788	827	721	642	573	3,772	3,514	7,286	6·15	5·75	5·95	4·56	9
10	Ratnágiri	10	10	1,310	912	316	300	378	276	374	322	415	435	385	324	337	305	2,215	1,952	4,167	4·31	3·30	3·77	2·99	10
	Southern Registration District.																								
11	Belgaum	11	11	1,076	735	385	231	290	306	367	433	472	470	444	451	402	365	2,227	2,289	4,516	4·36	4·57	4·46	4·69	11
12	Dhárwár	17	17	1,303	588	180	148	135	137	140	188	218	234	222	220	176	220	1,157	1,060	2,217	2·19	2·03	2·11	1·92	12
13	Bijápur...	10	10	1,112	707	213	155	194	135	197	217	309	339	355	426	411	319	1,586	1,684	3,270	3·98	4·23	4·11	3·29	13
14	Kánara...	13	13	1,185	235	79	87	71	54	62	59	63	62	56	54	57	49	429	324	753	1·83	1·53	1·69	1·97	14
	Gujarát Registration District.																								
15	Surat	10	10	795	114	85	60	22	21	28	64	72	120	93	68	68	84	411	374	785	1·28	1·14	1·21	0·47	15
16	Broach...	8	8	403	76	34	19	8	24	18	13	31	43	29	30	65	164	268	210	478	1·53	1·26	1·40	0·33	16
17	Kaira	11	11	579	212	13	30	23	73	71	115	142	184	102	134	105	434	933	583	1,516	2·03	1·42	1·74	0·27	17
18	Panch Mahals... ...	7	6	654	14	4	5	3	4	4	3	6	5	5	6	8	48	66	35	101	0·41	0·23	0·32	0·08	18
19	Ahmedabad	12	11	852	39	18	16	35	38	38	29	52	41	40	60	126	305	488	310	798	0·97	0·76	0·87	0·41	19
	Sind Registration District.																								
20	Karáchi	15	12	792	21	40	55	200	177	112	42	26	33	35	44	28	39	438	393	831	1·41	1·57	1·48	0·51	20
21	Hyderabad	13	10	1,251	21	20	13	26	27	33	21	15	35	39	41	23	30	171	152	323	0·36	0·37	0·37	0·24	21
22	Thar and Párkar ...	9	6	309	20	4	4	2	1	1	3	1	2	1	4	3	6	22	10	32	0·12	0·07	0·10	0·09	22
23	Shikárpur	17	15	1,106	39	12	16	21	15	10	10	9	16	12	27	29	28	121	84	205	0·25	0·20	0·22	0·17	23
24	Upper Sind Frontier .	5	4	295	4	...	...	...	1	...	...	2	1	...	3	1	1	4	5	9	0·03	0·06	0·05	0·06	24
	Total for the Presidency	283	269	25,191	10,904	5,729	4,556	5,473	5,200	5,510	5,699	7,602	7,781	7,105	6,736	6,102	7,243	40,318	34,388	74,736	4·14	3·80	3·97	2·65	

B 666—15 *a*

FORM S. XI A.—*Statement showing the* CHIEF SANITARY DEFECTS *in the* MUNICIPALITIES *of the* WESTERN REGISTRATION DISTRICT *during the year 1899.*

1	2	3	4	5	6	7
Number.	District.	Name of Municipality.	Population according to Census of 1891.	Total Death-rate per 1,000 of population.	Chief sanitary defects.	Remedial measures adopted.
1	Khándesh ...	1. Dhulia ...	21,871	41·01	There is no drainage. The sullage water soaks into the ground and causes nuisance.	Masonry drains are being built systematically, but will take time before the whole work is completed. The surface drainage scheme has been approved and under construction.
		2. Songir ...	4,277	36 94	*Nil*	*Nil.*
		3. Nandurbár .	7,670	65·84	Extension of surface drainage water-works ...	Drains are being constructed as funds are available.
		4. Chopda ...	15,655	40·88	*Nil*	.....
		5. Amalner ...	9,212	40·17	Drains in some parts of the town are still wanted ...	Drains have been built as the funds allow. Eight latrines have been constructed.
		6. Párola ...	14,478	32·81	Water-supply defective	Improving the various schemes for supplying water-supply were drawn up at different times, none were found practicable for want of funds.
		7. Erandol ...	12,333	38·27	Scarcity of water is keenly felt in parts of the town lying to the north and east. Want of latrines.	.....
		8. Dharangaon.	15,160	26·12	.....	.....
		9. Jalgaon ...	14,672	46·27	The drainage requires to be improved	The project for improving the water-supply is sanctioned, and the work has been undertaken by the Irrigation Department as a Famine Relief work.
		10. Yával ...	10,800	26·85	*Nil*	A drain constructed costing Rs. 64-8-0.
		11. Shirpur ...	10,142	18·73	Public latrines required	.....
		12. Bhusával ...	13,169	35·77	'U' shaped stone gutters are being built every year, but there is no place for its outlet, it runs into a ditch.	.....
		13. Sávda ...	7,142	33·46	*Nil*	.....
		14. Faizpur ...	9,535	42·59	*Nil*	*Nil.*
		15. Ráver ...	6,788	34·33	*Nil*	.....
		16. Taloda ...	8,094	33·23	The drinking water is not of good quality ...	.....
		17. Sháháda ...	5,510	42·29	More drains and latrines are wanted	.....
		18. Prakásha ...	3,684	60·80	Do. do.	*Nil.*
		19. Bhadgaon...	7,287	38·01	*Nil*	.....

1	2	3	4	5	6	7
Number.	District.	Name of Municipality.	Population according to Census of 1891.	Total Death-rate per 1,000 of population.	Chief sanitary defects.	Remedial measures adopted.
		20. Sindkheda...	4,713	48·38	.....	.....
		21. Betávad ...	3,372	50·42	More drains are wanted	.....
	Násik ...	22. Násik ...	24,406	153·77	No proper drainage. A good water-supply is needed...	.....
		23. Trimbak ...	4,084	179·23	.....	.....
		24. Yeola ...	18,861	40·82	No drainage. The water-supply is scanty ...	Towards improving the water-supply the Municipality spent Rs. 29,795 during the year under report in addition to Rs. 11,195 given to the Public Works Department.
		25. Igatpuri ...	7,544	72·24	No drainage. The water-supply is insufficient ...	.....
		26. Sinnar ...	10,012	102·97	No drainage. More latrines required	.....
		27. Málegaon...	15,633	55 97	No drainage	.....
	Thána ...	28. Thána ...	17,455	52·71	No drainage. The supply of water is obtained from the Pokhran tank, but is insufficient.	.....
		29. Kalyán ...	12,608	54·49	Some open road-side storm water drains have been constructed without regard to proper fall or outlet. The water-supply is scanty.	*Nil.*
		30. Bhiwndi ...	14,387	77·58	.....	.....
		31. Bassein ...	11,291	61·73	Drainage wanted	.....
		32. Máhím ...	7,684	48·15	Drainage wanted also a good water-supply ...	.....
		33. Bándra ...	18,759	52·35	Drainage wanted	.....
		34. Kurla ...	11,469	93 12	There is no drainage. Water-supply is deficient and unfit for drinking.	Vehár water is supplied free of charge from dipping wells and taps at convenient stations to the public.
	Bombay ...	Bombay City.	821,764	68·67	1. Incomplete system of drainage in certain parts and total absence of drainage in others. 2. Congestion of buildings and people and want of open spaces.	1. Drainage works in progress. Extension of system under survey and provision for outlet of storm and sub-soil water under consideration. 2. Formation of City Improvement Trust to deal with insanitary areas.
	Kolába ...	35. Alibág ...	5,886	26·84	More drains are needed. The water-supply needs increasing.	The Municipality is not at present in a position to remedy the defects for want of funds.

		36. Pen ...	7,466	40·50	There is no drainage. The town is built on a slope and has natural drainage.	.....
		37. Panvel ...	10,417	42·32	A drainage system is urgently required to prevent water logging of the town. More public latrines are required.	*Nil.*
		38. Uran ...	11,425	30·29	Drainage wanted. The water-supply requires improving.	*Nil.*
		39. Roha Astami.	5,549	22·16	No regular drainage. Public latrines wanted ...	.....
		40. Mahád ...	6,869	26·64	No regular drainage. Water-supply defective ...	*Nil.*

CENTRAL REGISTRATION DISTRICT.

1	Ahmednagar ...	Ahmednagar.	36,031	96·06	Improvement in drainage. Conservancy and water-supply required.	Improvement made in water distribution. Water is now forced by means of pumps worked by an engine up into 2 iron tanks placed outside the city-gates whence the water falls by gravitation into the town, the distribution pipes discharge the supply into 12 masonry cisterns and to 28 street pipe services from which the consumers take their water from 275 taps.
		Bhingár ...	5,490	45·54	Drainage and conservancy	*Nil.*
		Sangamner .	9,733	41·91	Water-supply and conservancy	Strict supervision has been kept over the reserved portion of the Pravara river from which water is taken for drinking purposes.
		Vámbori ...	5,159	38·57	Do. do.	A new well has been constructed affording ample water.
		Kharda ...	6,059	22·45	Do. do.	Public wells improved by taking out silt. New gutters made.
	Poona ...	Poona City .	118,657	128·02	Water-supply, conservancy and drainage ...	A scheme for the drainage of the city has been worked out during the year. Owing to plague measures the conservancy is better attended to than formerly. 78 privies reconstructed.
		Sásvad ...	5,684	103·27	Want of good water-supply, drainage, surface cleanliness.	Sweepers and Bhangis entertained to keep the place clean.
		Jejuri ...	3,479	29·03	Do. do. ...	None.
		Bárámati ...	5,410	39·74	Need of a better water-supply and system of conservancy.	None.

1	2	3	4	5	6	7
Number.	District.	Name of Municipality.	Population according to Census of 1891.	Total Death-rate per 1,000 of population.	Chief sanitary defects.	Remedial measures adopted.
		Indápur ...	5,246	44·99	Need of a better water-supply and system of conservancy	Roads and gutters cleaned daily.
		Sirúr ...	5,574	31·93	Do. do. ...	Masonry drains daily flushed.
		Khed ...	3,947	19·00	Do. do. ...	*Nil.*
		Lonávli ...	3,582	104·41	Drainage and conservancy	*Nil.*
		Talegaon Dábháda.	4,476	66·80	Do. do.	*Nil.*
		A'landi ...	2,143	36·86	Water-supply deficient in hot season and liable to pollution.	*Nil.*
		Junnar ...	11,905	31·92	Do. do. ...	*Nil.*
		Poona Subarban.	7,910	42·23	Drainage	*Nil.*
	Sátára ...	Sátára ...	25,748	32·85	Drainage and conservancy	*Nil.*
		Wái ...	12,436	41·33	Water-supply and conservancy	Sweepers and Bhángis entertained to keep the place clean.
		Rahimatpur.	6,674	22·62	Do. do.	*Nil.*
		Karád ...	12,085	99·62	Do. do.	*Nil.*
		Islámpur ...	10,650	35·68	Do. do.	*Nil.*
		Ashta ...	11,412	27·07	Do. do.	*Nil.*
		Tásgaon ...	11,251	56·26	Do. do.	*Nil.*
		Vita ...	3,847	21·83	Do. do.	*Nil.*
		Máyni ...	4,189	26·98	Do. do.	*Nil.*
		Mhasvad ...	6,415	30·24	Do. do.	*Nil.*
		Malcompeth	3,443	23·81	Want of drainage in the Bázár	*Nil.*
		Sátára Subarban Municipality...	3,353	19·98	Drainage	*Nil.*
	Sholápur ...	Sholápur ...	61,564	55·23	Drainage	Drainage scheme under consideration and is with the Executive Engineer.
		Bársi ...	20,552	42·72	Water-supply and drainage...	Drains repaired.
		Karmála ...	6,165	34·55	Conservancy and drainage and an extension of the water-supply.	Latrines repaired. A parapet to a large well built.

			Sángola ...	5,748	19·66	Water-supply and conservancy	A scheme for bringing a certain amount of water into the town from a well outside has been completed.
			Pandharpur.	19,953	47·01	Water-supply, drainage and conservancy ...	More gutters were constructed.
	Ratnágiri	...	Vengurla ...	10,120	36·36	Do. do. ...	*Nil.*
			Rájápur ...	7,446	23·50	Drainage and conservancy	*Nil.*
			Ratnágiri ...	14,274	43·43	Do.	*Nil.*
			Chiplun ...	11,378	28·92	Do. Water-supply insufficient.	*Nil.*
			Dápoli ...	2,685	21·60	Drainage, water-supply and conservancy ...	*Nil.*
1	Dhárwár	...	Dhárwár ...	32,583	48·22	Drains are many	*Nil.*
2	Do.	...	Hubli ...	52,194	64·55	.....	.....
3	Do.	...	Gadag-Betgiri ...	23,821	36·35	No proper surface drainage Storing refuse in compound. Existence of pit privies and sinks. Public latrines wanted.	Refuse stored in back yards removed and not allowed to be stored for a long time.
4	Do.	...	Navalgund ...	8,989	76·54	No regular drains	.....
5	Do.	...	Yámnur ...	984	18·29	Water-supply sufficient but not of good quality ...	.....
6	Do.	...	Nargund ...	5,878	49·68	No regular drainage. Water-supply insufficient. Public latrines wanted.	.....
7	Do.	...	Ránebennur ...	13,756	31·91	There is no proper system of drainage. Public latrines are required.	.....
8	Do.	...	Guddguddápur ...	707	26·87	There is no proper system of drainage	*Nil.*
9	Do.	...	Byádgi ...	4,808	48·26	There is no drainage	.....
10	Do.	...	Háveri ...	6,758	30·78	There are no masonry drains. Public latrines required.	.....
1	Belgaum	...	Belgaum ...	28,342	80·87	Water-supply	*Nil.*
2	Do.	...	Athni ...	10,416	40·32	There is no drainage. Water-supply defective ...	Steps are being taken to provide a good water-supply.
3	Do.	...	Gokák ...	12,106	37·58	.....	.....
4	Do.	...	Saundatti-Yellama	8,930	37·74	No drainage beyond surface drains to the streets to carry away the rain water. In summer and when large fairs are held the water-supply is insufficient. More public latrines required.	Rs. 494-11-0 were spent in repairing and constructing wells.
5	Do.	...	Nipáni ...	11,731	52·43	No drainage	*Nil.*
6	Do.	...	Yamkanmardi ...	5,772	36·38	Do.	.....
7	Bijápur	...	Bijápur ...	16,749	34·21	.....	Gutters have been constructed wherever most needed.
8	Do.	...	Bágalkot ...	18,034	35·93	Drains are urgently needed in most of the streets and lanes of the town. More public privies and dust-bins are wanted.	15 iron dust-bins have been added during the year at a cost of Rs. 96-4-6. The existing old dust-bins and gutters were repaired at a cost of Rs. 8-9-6 and Rs. 29-14-3 respectively.
9	Do.	...	Guledgudd ...	15,481	42·44	More drains are needed in Wani and Hutgar Peiths. Water-supply insufficient.	*Nil.*

1	2	3	4	5	6	7
Number.	District.	Name of Municipality.	Population according to Census of 1891.	Total Death-rate per 1,000 of population.	Chief sanitary defects.	Remedial measures adopted.
10	Bijápur ...	Ilkal ...	11,216	16·76	No drainage. Water-supply is insufficient ...	*Nil.*
11	Kánara ...	Kárwár ...	14,515	19·98	No regular drainage	.....
12	Do. ...	Kumta ...	10,713	23·06	.....	.....
13	Do. ...	Sirsi ...	6,644	48·92	The water-supply requires improving. Public latrines wanted.	Construction of a masonry drain about 300 feet long for dirty water of the Police Lines.
14	Do. ...	Honávar ...	6,207	20·94	.....	.....
15	Do. ...	Gokarn ...	4,342	46·98	.....	.....
16	Do. ...	Haliyál ...	6,180	52·59	Road-side drains are wanted. There are no public latrines.	.....
17	Do. ...	Ulvi ...	10,611	·66	The Municipality is a temporary one coming into existence yearly for about a fortnight or so in order to make arrangements for the annual Car festivals of Shri Basaveshwar Deo of Ulvi.	.....
18	Do. ...	Bhatkal ...	5,940	29·12	Better drains required in the eastern part of the town to carry away storm water.	.....
1	Surat ...	Surat ...	108,631	51·04	The drainage is defective, so far as removal of sullage water from private houses is concerned.	The question of removing sullage water is under consideration.
2	Do. ...	Bulsár ...	14,714	35·95	Masonry open drains throughout the town are required. More public latrines and urinals are required.	.....
3	Do. ...	Mándvi ...	3,965	53·97	.....	.....
4	Do. ...	Ránder ...	10,921	40·66	.....	Waterpipes have been laid and water from the Surat water-works brought into the town.
5	Broach ...	Broach ...	40,137	62·06	There is no drainage, but the natural situation of the city is good.	.....
6		Jambusar ...	12,070	44·16	*Nil*	*Nil.*
7		Amod ...	5,006	57·13	*Nil*	*Nil.*
8		Anklesvar ...	10,692	39·47	No drainage. Water-supply is abundant but of an inferior quality, the water being polluted by soakage from a large number of well privies which exist in the town.	The surface drains are being gradually carried out but there is a legal difficulty preventing the Municipality from enforcing the conversion of well privies into surface ones.
9		Hánsot ...	4,436	31·56	.....	

10		Kaira ...	10,101	39·89	A drain to carry off the sullage water	A scheme for the drainage of the town is under consideration. The water-work scheme has been held in abeyance for want of funds.
11		Nadiád ...	29,044	47·79	A drain to carry away the monsoon water into the river Shedi. Sullage water drains are wanted; cesspools and pit privies ought to be closed. Addtional public latrines required.	.....
12	Kaira ...	Borsad ...	12,159	56·99	The step-wells should be converted into a well without steps. A few more urinals and dust-bins and one or two additional latrines are wanted.	
13		Kapadvanj ...	14,805	53·36	*Nil*	.....
14		Mehmadabad ...	7,842	52·79	*Nil*	*Nil.*
15		Mahudha ...	9,436	44·30	*Nil*	*Nil.*
16		A'nand ...	9,214	49·82	*Nil*	*Nil.*
17		Od ...	8,082	45·29	*Nil*	*Nil.*
18		Umreth ...	15,638	45·08	*Nil*	14 urinals are put up at different places in the town.
19		Dákore ...	9,487	72·63	.....	.....
20		Godhra ...	14,691	92·10	.....	.....
21		Dohad ...	12,935	41·05	.....	.....
22		Ahmedabad ...	144,192	56·18	Except Khadia Zilla in which the drainage system has been extended, the rest of the city requires drainage.	(1) Water-works completed. (2) Experimental drainage scheme completed and 5,000 houses connected with the drainage system. (3) Experimental sewage farm.
23		Gogo ...	6,637	27·12	*Nil*	*Nil.*
24	Panch Maháls...	Viramgám ...	28,197	43·84	Improvement of the gradients of the circuitous channel round the city wall, widening of the Hebatpur channel, which drains off the water coming from the north-eastern corner of the tank and diversion of the water from above the Railway line towards the west of the town are necessary. A good water-supply for which trial is made at Rajbai step-well is needed. A regular drainage is necessary throughout the town.	Improvements of the channel are in progress.
25		Dholka ...	16,494	35·41	Water-supply sufficient, but of indifferent quality ...	The Malao tank improvement and the western drainage channel works are taken in hand.
26		Dhandhuka ...	9,576	52·11	Only partial drainage is in existence.	.....
27		Dholera ...	10,088	32·21	During the hot season the water becomes brackish and the supply is insufficient.	.....
28		Ránpur ...	5,838	32·38	More public latrines required.	.....
29		Sánand ...	7,784	35·84	.....	.....
30	Ahmedabad ...	Mándal ...	8,030	49·07	Construction of pucka roads and drainage, excavation of the village tank and construction of pucka privies are needed.	.....
31		Parántij ...	8,776	29·63	*Nil*...	*Nil.*
32		Modása ...	6,965	36·61	*Nil*...	*Nil.*

1	2	3	4	5	6	7
Number.	District.	Name of Municipality.	Population according to Census of 1891.	Total Death-rate per 1,000 of population.	Chief sanitary defects.	Remedial measures adopted.
1	Karáchi	Karáchi	97,009	48·68	The whole city is not drained	Houses connected with the municipal drain. More latrines and urinals constructed. Shone's drainage system introduced into the native town and part of Lyári quarter.
2	Do. ...	Kotri	7,909	26·42	Drains in the low bunds of the market to carry away storm water to the drain is necessary.	No improvements were carried out owing to paucity of funds.
3	Do. ...	Mánjhand ...	2,538	37·43	There is no drainage	The introduction of donkey carts has a good deal abated the nuisance which formerly existed of throwing the refuse water on to the streets.
4	Do. ...	Sehwan	4,624	42·82	No drainage	.....
5	Do. ...	Bubak	2,880	45·18	Do.	The sweepings are taken on donkeys to a distance of half a mile.
6	Do. ...	Tatta	8,969	38·01	Do.	.....
7	Do. ...	Keti	2,124	48·02	Do.	.....
8	Hyderabad ...	Hyderabad ...	54,512	35·04	.....	Two new iron latrines were erected in the west of the town, while new water-works engines were set apart the Fort Lift for supplying cantonment with water from the Fort reservoir.
9	Do. ...	Tando Muhammad Khán.	4,126	38·54	.....	.....
10	Do. ...	Hála	5,002	17·59	There are no drains	Filth depôts have been started in all the municpal towns.
11	Do. ...	Matári	5,815	15·82	Do.	Do. do.
12	Do. ...	Tando Alahyar ...	4,308	21·12	Do.	Do. do.
13	Do. ...	Tando Adam ...	5,033	31·59	Do.	Do. do.
14	Do. ...	Nasarpur ...	3,914	15·07	Do.	Do. do.
15	Shikárpur ...	Shikárpur ...	41,991	33·20	The storm, sullage and waste water which accumulates at the outfall reservoirs should be carried further away. The present plan of lifting water at the public wells by means of common Persian wheels is defective, as the wood-works soon get coated with green slim.	Drains to the lanes and streets in the town are being gradually paved.

16	Do. ...	Sukkur	28,935	30·10	Drainage requires improving. Urinals and a proper system of house conservancy wanted.	.....
17	Do. ...	Garhi Yásin ...	5,960	28·86	There are no drains	.....
18	Do. ...	Lárkhána ...	12,010	15·07	.....	Street paving is progressing, one slaughter-house was paved.
19	Do. ...	Kambar	5,341	30·70	.....	.....
20	Do. ...	Rato-dero ...	3,554	24·77	.....	The main bázár was paved at a cost of Rs. 1,899.
21	Do. ...	Rohri	8,786	32·44	.....	.....
22	Do. ...	Ghotki	3,288	34·98	.....	.....
23	Thar and Párkar	Umarkot ...	3,698	34·61	There is no drainage. The rain water runs off and soaks into the sand hills. The water-supply, though abundant, is rendered impure by the sub-soil communication of the dirty water of the Lambu tank.	.....
24	Do. ...	Mitti	2,991	...	.....	.....
25	Jacobabad ...	Jacobabad ...	8,258	32·82	.....	.....

Annual Reports.—

Annual Report of the Sanitary Commissioner for the Government of Bombay for the year 1899.

General Department.
No. 5522

Bombay Castle,
20th October 1900.

Letter from the Sanitary Commissioner for the Government of Bombay, No. 4153-B., dated the 8th October 1900—

Submitting the Annual Report of his Department for the year 1899.

Memorandum from the Sanitary Commissioner for the Government of Bombay, No. 4154-B., dated the 8th October 1900.

RESOLUTION.—The year 1899 was remarkable for the great increase in both the births and the deaths registered in this Presidency. The fluctuations since plague first appeared are equally striking. The following are the statistics (as regards the native population) for the last five years.

Year.	Births.	Deaths.
1895	6,74,304	5,38,540
1896	6,91,847	5,96,472
1897	6,29,693	7,49,916
1898	5,82,371	5,48,825
1899	6,85,348	6,72,269

2. As regards the births registered in the year under review, it is observed that, notwithstanding the increase by more than a lac, as compared with the figures for 1898, the number fell short of the statistics for 1896. The birth-rate in the Khándesh District, which was 40·74 per mille in 1898, and 44·22 on an average in the previous ten years, rose in the year under review to the exceptionally high figure 52·85. Next year's census will afford an opportunity of judging whether this high rate is due to the population of the district having been under-estimated. In the City of Bombay the rate has now fallen to 12·88 per mille, but it is noticed that there has been a marked rise in the rate for the Ratnágiri District to which a large portion of the fluctuating labouring population, female as well as male, of the City of Bombay belongs.

3. The fluctuations in registered deaths shown in the table in paragraph 1 above are in no way accounted for by the recorded deaths from plague, which for the three years 1897, 1898 and 1899 were respectively 46,944, 86,191 and 96,596 as compared with total mortality statistics of 7,49,916, 5,48,825, and 6,72,269. Under most of the principal headings* there was some increase of deaths in 1899, as compared with 1898, but the greater part of the increase is shown under the heading "other causes." This has indeed now become the most important "heading" for causes of deaths. The following statistics of deaths "from other causes" are very remarkable.

* Cholera. | Plague.
Small-pox. | Dysentery and diarrhœa.
Fever. | Injuries.

Year.	Number of deaths.
1895	97,104
1896	1,00,112
1897	1,43,503
1898	1,76,335
1899	2,54,872

4. The Sanitary Commissioner, in quoting these figures, and those for previous years, in paragraph 117 of his report, points out that there has been a gradual increase for the past eleven years, and adds that he expects a further increase in the current year. His explanation that the increase is due to more accurate registration may perhaps be true of particular places; but Government cannot easily understand how it can be generally applicable, for, except in the last two years, there has been no corresponding decrease in the recorded deaths from "fever" under which head it may be supposed that deaths from miscellaneous causes are sometimes carelessly classed. Lieut.-Colonel Clarkson's suggestion that a separate column should be prescribed in the returns for deaths due to "diseases of the Respiratory Organs" will be separately considered. It is presumed from his remarks that he is inclined to think that such diseases account for a considerable proportion of the deaths shown as due to other causes, and in this connection it may be observed that the attention of Government has been separately called by the Surgeon General to the extent to which phthisis appears to be increasing in the City of Bombay.

5. His Excellency the Governor in Council has observed with concern the terribly high mortality shown in paragraph 49 of this report among the urban population in several districts in the Presidency. In Násik the rate was 96·82 per mille of population: in Poona it was 104·06: in Belgaum 65·21: in the Panch Maháls 68·20: in Karáchi 95·36: and in Thar and Párkar no less than 228·77. The Sanitary Commissioner should be requested to explain, as far as possible, such abnormal statistics in future reports, and to now submit explanations as regards the Panch Maháls. Karáchi and Thar and Párkar. He has, indeed, explained as regards Umarkot, the only town in Thar and Párkar, that the high death-rate "is due almost entirely to fever, which, the Deputy Sanitary Commissioner, Sind, states, is probably due to the reduced vitality of the population owing to scarcity." This explanation appears to Government to be hardly sufficient. It is difficult to believe, if the figures of the population are correctly given, that ordinary fever alone could have swept away nearly 23 per cent. of the entire population of the town in the course of a year in which, judging by the recorded death-rate (21 per mille), the health of the rural population appears to have been good. The Governor in Council is of opinion that the heavy death-rate is, in all probability, due, in great measure, to the influx of famine-stricken immigrants in reduced condition of health into Thar and Párkar. Further inquiry into this matter will be made through the Commissioner in Sind.

The attention of the Sanitary Commissioner should be called to the fact that the average death-rate for the rural population of the Presidency given as 64·76 per mille at the foot of his table in paragraph 49 is obviously the result of a miscalculation or a clerical error.

6. The attention of the Famine Department of the Bombay Government will be especially directed to Section 10 of this report, which contains the Sanitary Commissioner's remarks on Famine Administration and Relief Works.

7. The work of the Sanitary Board during the year under review consisted mainly of the preparation of an important drainage scheme for the City of Poona by Mr. Pottinger, the Sanitary Engineer to Government. The proposals of the Municipality, to whom Government referred the scheme in October 1899, have just been received and His Excellency in Council hopes to be able to pass orders on the subject without delay.

8. The Governor in Council has perused with much interest the report of Major Crimmin, V.C., I.M.S., Health Officer of the Port of Bombay, which forms an appendix to the Sanitary Commissioner's report.

9. Government understand that the great delay in submitting this report is attributable to the famine duties entailed on the Sanitary Commissioner and on the officers from whom he received statistics.

J. DEC. ATKINS,
Secretary to Government.

To

The Surgeon General with the Government of Bombay,
The Sanitary Commissioner for the Government of Bombay,
The Health Officer of the Port of Bombay,
The Sanitary Engineer and Member of the Sanitary Board,
The Commissioner in Sind,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
All Collectors and District Magistrates in the Presidency Proper and Sind,
The Municipal Commissioner for the City of Bombay,
The Survey Commissioner and Director of Land Records and Agriculture,
The Deputy Adjutant General, Bombay Command,
The Compiler, General Administration Report for 1899-1900,
The Chairman, Bombay Port Trust,
The Revenue Department of the Secretariat,
The Famine Department of the Secretariat,
The Marine Department of the Secretariat,
The General Department of the Secretariat (Plague),
} With copies of the Report.

The Government of India,
The Secretary of State for India,
} By letter.

The Editors' Table, Bombay,
The Editors' Table, Poona,
The Editors' Table, Dhárwár,
The Editors' Table, Belgaum.

Digitized with financial assistance from the Government of Maharashtra on 11 July, 2017